

COMMITTEE HEARING
BEFORE THE
CALIFORNIA ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION

In the Matter of:)
) Docket No.
Preparation of the 2004 Integrated)
Energy Policy Report (Energy Report) 04-IEP-01-D)
)
Investor-Owned Utility Resource)
Plan Summary Assessment Report)

)

CALIFORNIA ENERGY COMMISSION
HEARING ROOM A
1516 NINTH STREET
SACRAMENTO, CALIFORNIA

WEDNESDAY, JUNE 29, 2005

1:00 P.M.

Reported by:
Christopher Loverro
Contract No. 150-04-001

COMMISSIONERS PRESENT

John Geesman, Presiding Member

James Boyd, Associate Member

Jackalyne Pfannenstiel

ADVISORS PRESENT

Melissa Jones

Michael Smith

STAFF and CONTRACTORS PRESENT

Kevin Kennedy

Ross Miller

Karen Griffin

ALSO PRESENT

Harold LaFlash
Pacific Gas and Electric Company

Stuart Hemphill
Andrea Horwatt
Southern California Edison Company

Robert Anderson
San Diego Gas and Electric Company

Steven Kelly
Independent Energy Producers Association

Jack Piggott
Calpine Corporation (via teleconference)

Scott Cauchois
Office of Ratepayer Advocates
California Public Utilities Commission

Susan Freedman
San Diego Association of Governments

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1 P R O C E E D I N G S

2 1:00 p.m.

3 PRESIDING MEMBER GEESMAN: This is a
4 workshop of the California Energy Commission's
5 Integrated Energy Policy Report Committee. I'm
6 John Geesman, the Presiding Member of the
7 Committee. To my left, Commissioner Jim Boyd, the
8 Associate Member of the Committee.

9 To his left, Mike Smith, his Staff
10 Advisor. To Mr. Smith's left, Commissioner
11 Jackalyne Pfannenstiel, a third member of the
12 Commission. And to my right, Melissa Jones, my
13 Staff Advisor.

14 Kevin.

15 MR. KENNEDY: Thank you, Commissioner.
16 Good afternoon, everyone. My name is Kevin
17 Kennedy and I am the Program Manager for the 2005
18 Integrated Energy Policy Report proceeding. I
19 want to extend a welcome to everyone who is here
20 in person, and also to the folks listening on the
21 phone or on the webcast.

22 A quick reminder, as we're starting, to
23 the folks on the phone. It is very helpful from
24 our perspective if you keep your phone on mute
25 unless it's time for a comment. Sounds from the

1 phone lines do get broadcast into the room.

2 I just want to start by giving a quick
3 overview of what we're going to be doing today.
4 First, I'm going to give a quick walk-through of
5 the resource plan information that the Energy
6 Commission had asked for in terms of the forms and
7 instructions, which will be the basis of what we
8 are talking about today.

9 We will then give the opportunity for
10 representatives of the three investor-owned
11 utilities to provide brief presentations on their
12 resource plan filings.

13 The main part of the day will be a staff
14 presentation on the IOU resource plan summary
15 report that was published on June 17th. And then
16 opportunity for comment and discussion around
17 that.

18 As I indicated, the Energy Commission
19 directed the state's load-serving entities to file
20 retail price, demand forecast and resource plan
21 data for the 2005 Energy Report proceeding.
22 Today's hearing will be very specifically focused
23 on the resource plan information provided by the
24 state's three largest investor-owned utilities,
25 PG&E, SCE and SDG&E.

1 To provide some degree of context for
2 what we're talking about today I just wanted to do
3 a very quick walk-through of what the Energy
4 Commission directed the utilities to provide to us
5 in terms of the resource plans.

6 In terms of the basic format we asked
7 for monthly capacity and energy resource
8 accounting tables for the years 2006 through 2016.
9 In those tables that provides opportunity to
10 compare the expected demand with the existing and
11 planned supplies to identify resource gaps. And
12 also provided the utilities the opportunity to
13 identify the general categories of resources that
14 could be used to fill those gaps.

15 We do acknowledge that trying to look
16 out to 2016 there are many uncertainties that
17 affect the estimates of what the size of the gap
18 may be, and how that might be filled. So there's
19 a fair amount of uncertainty in terms of the
20 resource plans that have been filed.

21 One of the things that we did in terms
22 of dealing with that was to ask the utilities to
23 provide a number of different cases and scenarios
24 in terms of the monthly detailed information.

25 The one case that we asked all the

1 utilities to file was a reference case, where the
2 Energy Commission defined fairly specifically the
3 assumptions that we expected to see in the
4 reference case.

5 For example, we directed the utilities
6 to assume that the adopted energy efficiency and
7 demand response goals are met; that the RPS goals
8 that are currently set at 20 percent of retail
9 sales being renewables by 2010 would be met; that
10 there wouldn't be any additional migration of load
11 to direct access, but we did ask them to assume
12 some degree of departure of load to community
13 choice aggregation or future municipalization.

14 In addition to that reference case, we
15 also asked the utilities to file a number of other
16 scenarios in terms of the detailed monthly
17 information. To the extent that any of the
18 reference cases for an individual utility included
19 a major new transmission line, we asked that they
20 include a separate scenario in which they assumed
21 that the transmission line was not approved and
22 did not go into effect.

23 For SCE that meant a case that did not
24 include the Devers-Palo Verde II line. And for
25 San Diego that meant a case that did not include a

1 major 500 kV transmission upgrade into their
2 system. PG&E did not actually assume a major
3 transmission upgrade, so they do not need to
4 provide a case of that sort.

5 We also directed them to provide a
6 scenario that showed how they would meet the
7 accelerated renewables goals that this Commission
8 adopted as a recommendation as part of the 2004
9 Energy Report Update.

10 That recommendation would have the
11 utilities achieving 33 percent renewables by 2020,
12 in general, but also would have SCE in particular
13 starting to add 1 percent a year immediately to
14 achieve a goal of 35 percent by 2020.

15 Because our end year in the resource
16 plans was 2016, what that meant was that PG&E and
17 SDG&E would need to achieve 28 percent, on their
18 way to the 33 percent goal, by 2016; and for SCE
19 it would be 31 percent by 2016.

20 We also asked for a scenario that
21 examined different assumptions on a core/noncore
22 setup. And we also provided the IOUs the
23 opportunity to give us their preferred case. If
24 they felt that there was another set of
25 assumptions that would better indicate what they

1 expected the world to look like going forward,
2 that they should give us a case in that direction.

3 All three did give us some additional
4 case along these lines. Only one of them labeled
5 it a preferred case. Two of them simply referred
6 to it as an alternate case.

7 In addition to the detailed monthly
8 information, there were a number of other -- much
9 additional information that we did ask for in the
10 forms and instructions, such as resource planning
11 costs, assessments of local reliability, how the
12 greenhouse gas adder would affect bid evaluations
13 in the PUC procurement process. And a number of
14 others. I won't go through the whole list there.
15 It's listed in the presentation.

16 What we are primarily talking about
17 today is the staff assessment of those IOU
18 resource plans that were filed. The scope of the
19 report that we're discussing is limited to the
20 three IOUs. And much of the evaluation was an
21 evaluation of looking at how the resource plans,
22 as filed, matched up against the procurement
23 mandates.

24 We also took a look at distributed
25 generation; existing and planned resources such as

1 the DWR contracts and QF contracts; took a
2 qualitative look at the net open position. And
3 also tried to look at the resource plan impacts
4 and uncertainties and the transmission
5 constraints.

6 This hearing today is just one of a
7 series over the next month or so that we'll be
8 looking at in a variety of ways at electricity and
9 natural gas issues. Tomorrow we will actually
10 have a second hearing that will be up at Cal-EPA;
11 a hearing on the demand forecast, both the staff-
12 generated demand forecast, and the demand
13 forecasts filed by the various LSEs.

14 On Friday there is a workshop looking at
15 the PIER research on strategic value analysis for
16 integrating renewable resources into the state
17 system.

18 Next week on July 7th there is a
19 workshop on electricity issues and policy options.
20 And yesterday we posted a series of questions that
21 we are hoping to address at that workshop on our
22 website.

23 On July 11th we have a workshop focused
24 again up at Cal-EPA on energy efficiency issues
25 and policy options. On July 14th we're going to

1 be looking at the natural gas forecast and policy
2 options.

3 On July 25th and the morning of July
4 26th we will be looking at both implementing the
5 state's loading order for electricity resources
6 and taking a look at the statewide WECC resource
7 review.

8 On July 28th we'll be taking a look at
9 the transmission system and policy recommendations
10 there. And on August 9th we're planning to take a
11 look at a number of scenarios within the natural
12 gas forecast.

13 This is not a complete list of all of
14 the IEPR-related workshops that will be held.
15 There's also a number of others related to either
16 transportation topics, and also a couple related
17 to global climate change. So I would encourage
18 folks to take a look at the website to get the
19 complete list of all the topics that we will be
20 dealing with.

21 Two that I did not actually include on
22 this list that do relate to electricity will
23 actually be in mid August. On August 15th and
24 16th we're going to be taking a look at a number
25 of issues related to the role of nuclear power in

1 the state. And on the August 17th and 18th we'll
2 be taking a look at clean coal and what role, if
3 any, that may have in the future of California's
4 electricity system. So there's a lot more
5 activity coming up.

6 One thing I would like to point out is
7 that in terms of the staff report we will be
8 discussing today there was a certain degree of
9 limitation on how much of the detail of the
10 monthly data we could get into, because the actual
11 monthly detailed filings are being treated as
12 confidential information.

13 Staff had put together, in early June, a
14 proposal for how to provide both quarterly and
15 annual aggregated versions of that information.
16 We provided the IOUs and the ESPs several weeks to
17 respond to that proposal. And actually it was
18 today that we managed to publish a set of
19 aggregate data tables that include, for planning
20 area information, both annual capacity and energy
21 information. And in terms of IOU customer-
22 specific information, annual energy information.

23 The other portions of that aggregation
24 proposal are being contested by the IOUs. And
25 there will actually be a hearing before the full

1 Energy Commission on July 13th to consider that
2 proposal to see whether or not the Commission
3 believes that what was proposed by staff would be
4 appropriate to be made public.

5 So, because we only published the
6 aggregation tables today obviously we're not
7 expecting anyone to have anything to say about
8 them at this workshop. Most likely the place that
9 they would come into play most directly would be
10 at the workshops on July 25th and 26th. It may
11 well be that they also provide useful information
12 for any of a number of the other workshops that
13 are on this list.

14 So, just wanted to make that clear, that
15 in terms of what we're discussing today we're
16 really going to be able to focus in on what we
17 were able to say publicly in the June 17th IOU
18 resource plan summary report.

19 I also want to remind folks,
20 particularly on the webcast, that we do have a
21 call-in number if you're listening on the webcast
22 and find that you want to add some comments. The
23 call-in number is up on the screen, 888-857-6266.
24 The call leader is Al Alvarado, and the passcode
25 is electricity.

1 And, again, we do ask if you are
2 listening in on the call-in number please keep
3 your phone muted, if you have that ability. If
4 you don't, try to avoid background noise. It can
5 be distracting at times.

6 And I would encourage use of the webcast
7 if you have a choice of one or the other. Because
8 with the webcast you also get to see the slides
9 that are up on the screen.

10 So, with that, unless there are any
11 comments or questions on that introduction, next
12 on the agenda is actually for the various IOUs to
13 have an opportunity to provide a quick overview of
14 the resource plans that they provided to us.

15 And first on the list is PG&E.

16 MR. LaFLASH: Good afternoon,
17 Commissioners. My name's Hal LaFlash. I'm
18 Director of Integrated Resource Planning and
19 Policy for PG&E.

20 PG&E would like to thank the IEPR
21 Committee and the Commission Staff for all of its
22 efforts in developing this staff report. We
23 intend to make several brief comments and then
24 take questions.

25 Our comments are first going to address

1 the general goals and observations of the process;
2 followed by a discussion of preferred resource
3 plan. And then it's relationship to the state's
4 Energy Action Plan, which we believe is the
5 appropriate focus for this process.

6 As there were no requests for cross-
7 examination, we've not prepared a formal
8 discussion of that process. But, of course, we'll
9 take any questions you have.

10 Finally, we note that the Commission
11 Staff report has some errors and clarifications
12 required, and we will provide written comments on
13 those. I will address those today only to the
14 extent they come up in this afternoon's staff
15 presentation.

16 PG&E supports the CEC/CPUC interagency
17 collaboration on utility need assessment and
18 resource procurement, and we look forward to the
19 final report from the CEC IEPR Committee that
20 satisfies the goals outlined in Commissioner
21 Peevey's assigned commissioner ruling last fall.

22 PG&E would like to stress to the
23 Committee that while this IEPR process is intended
24 to result in firm recommendations, resource
25 planning is an ongoing and dynamic process,

1 especially in California. And we believe there
2 are no right or wrong answers. And the Committee,
3 in developing the resource recommendations for the
4 CPUC, should resist the temptation to be overly
5 prescriptive.

6 We provide this caution since the
7 environment in which we operate is continuing to
8 change rapidly and the resource plans need to be
9 flexible to respond to those changing conditions.

10 If this sounds overly dramatic just
11 consider that since we filed our last resource
12 plan less than a year ago, we've had new energy
13 efficiency targets, new demand response targets.
14 We've made several filings to approve new supply
15 side resources and demand side programs.

16 Going forward we can reasonably
17 anticipate more changes, not the least of which
18 are new resource adequacy requirements,
19 implementation rules for community choice
20 aggregation, possible new legislation, a ballot
21 measure on direct access and utility service, and
22 the continuing implementation of the California
23 ISO's market redesign process. We believe our
24 plans need to be able to adapt to these changes as
25 they occur.

1 PG&E understands that the staff report
2 addresses only the utility resource needs, that is
3 the investor-owned utility resource needs. We
4 would like to understand the process to identify
5 the rest of the state needs, in that 30 percent of
6 the energy in California comes from other than
7 investor-owned utilities.

8 We've been working with the CEC Staff
9 since the beginning of the year to insure the
10 staff has sufficient and relevant information to
11 implement the goals. And we've responded to
12 numerous data requests, and are available to
13 respond to more, if needed.

14 We're willing to furnish the Commission
15 with all the information required, but we're
16 reluctant to provide a number of -- a lot of this
17 data without some confidentiality protection.
18 PG&E believes that much of this data is
19 commercially sensitive; it's not in the best
20 interest of our customers to share this data with
21 market participants. We're always willing to
22 provide this Commission and nonmarket participants
23 with the data necessary under the appropriate
24 nondisclosure agreements.

25 Kevin Kennedy discussed the different

1 scenarios for the plans that were submitted.
2 We'll emphasize our preferred plan. It was one of
3 the four cases, as Kevin mentioned. The other
4 three cases were designed by the CEC Staff and
5 reflect the staff's views and assumptions.

6 We don't disavow the validity of any of
7 their assumptions, but we don't necessarily
8 endorse or embrace those as our assumptions.
9 That's why we identified the one plan as our
10 preferred resource plan.

11 We believe the preferred plan that we
12 filed is consistent with the long-term plan that
13 we filed last July, and was approved by the Public
14 Utilities Commission in December. And it's also
15 consistent with, in fact identical to, the plan
16 that we filed on March 25th with the CPUC as an
17 update to our long-term plan.

18 We believe that our preferred plan
19 properly implements the Energy Action Plan loading
20 order. We meet the energy efficiency targets and
21 demand response programs for those targets.

22 Regarding renewables procurement we just
23 recently filed four contracts from our 2004
24 solicitation, totaling 195 megawatts minimum, with
25 the ability to expand those. We expect to issue a

1 new RPS request for offer in August of this year.
2 And we recently filed conventional generation, a
3 application to complete the construction of the
4 530 megawatt Contra Costa 8 Unit earlier this
5 month. And we're currently evaluating bids for
6 shaping of peaking resources in response to a
7 recent all-source RFO.

8 A summary of our resource planning
9 assumptions discussion is available on the table
10 in the lobbyway. And with that I'd be happy to
11 either answer questions now, or if you'd prefer to
12 wait for all three utilities, either way.

13 PRESIDING MEMBER GEESMAN: I've got a
14 couple of questions. Could you describe for us
15 how PG&E is going about applying the directive
16 from the PUC's December procurement decision
17 making renewables a rebuttable presumption for all
18 procurement?

19 MR. LaFLASH: We have, through two
20 processes, renewables are being solicited
21 separately and through the all-source
22 solicitation. The solicitation which we issued, I
23 believe originally in November, and then reissued
24 after we received the PUC decision in December,
25 was an all-source solicitation that was available

1 for renewables. And they would compete heads-up
2 with other resources that were submitted through
3 that process.

4 The thing to note is the rebuttable
5 presumption, our resource solicitation
6 specifically asked for peaking and shaping
7 products. And we've yet to see a renewable
8 proposal for a peaking and shaping product that
9 was anywhere within shouting distance of a
10 conventional resource.

11 PRESIDING MEMBER GEESMAN: Do you have
12 an analytic framework that attempts to apply that
13 rebuttable presumption approach? I certainly
14 understand what you're saying as it relates to
15 peaking and shaping resources, and I've
16 anecdotally been told that for a number of years.
17 I'm wondering if you've got a specific methodology
18 that attempts to apply a rebuttal presumption
19 approach.

20 MR. LaFLASH: We do have a evaluation
21 methodology that looks at several characteristics,
22 including the market value of a particular product
23 that we've asked for.

24 And as I said, we've only seen one
25 renewable product that was submitted under that

1 category. And there just isn't a competitive
2 renewable product in that category now.

3 PRESIDING MEMBER GEESMAN: And is that
4 market value assessment similar to the process the
5 PUC uses in the RPS program for the market price
6 referent?

7 MR. LaFLASH: It's more specific than
8 that. In fact, the way we use the market price
9 referent is specifically fine tuned to each
10 utility. We have time-of-day factors that we use
11 on the market price referent that gives higher
12 weighting to peak hours.

13 PRESIDING MEMBER GEESMAN: I'm unclear.
14 So, in your all-source solicitation do you take
15 that utility-specific market price referent then
16 to evaluate renewable bids?

17 MR. LaFLASH: The all-source
18 solicitation, in that it was seeking peaking
19 resources, didn't receive any bids from renewables
20 for that category this time around.

21 PRESIDING MEMBER GEESMAN: Okay. Then
22 maybe it was the shaping product that you were
23 describing that did. I think you said --

24 MR. LaFLASH: No, actually the one --
25 I'm sorry, Commissioner -- the one we did receive

1 was in a renewables-only solicitation that we
2 evaluated separately, using the market value and
3 time-of-day factors for that market price
4 referent.

5 PRESIDING MEMBER GEESMAN: Okay. As it
6 relates to the proposal you've made on the Contra
7 Costa project, how has the rebuttable presumption
8 analytic framework been applied there?

9 MR. LaFLASH: That was -- I don't have
10 all the details of that filing, but that was
11 basically, compared to the alternative for similar
12 products and similar prices. And I can provide
13 you with the application, but I don't have that
14 detail memorized.

15 PRESIDING MEMBER GEESMAN: Yeah, I'm
16 trying to determine the extent to which that
17 proposal is consistent with the PUC's directive
18 that renewables be a rebuttable presumption for
19 all procurement.

20 MR. LaFLASH: I can respond to that in
21 comments.

22 PRESIDING MEMBER GEESMAN: Okay. Other
23 question is if you could elaborate upon how PG&E
24 applies the least-cost/best-fit concept to its
25 procurement. It's my impression that that lies at

1 the root of all the PUC's procurement directives
2 to the utilities. And I'm curious as to how your
3 company chooses to define that.

4 MR. LaFLASH: Least-cost/best-fit is
5 part of a -- there are several factors within
6 least-cost/best-fit. Market value being one of
7 those; transmission adders; CO2 adders. I think
8 about half a dozen different factors. I don't
9 have the formula in front of me, but it's
10 basically a valuation that's applied to every
11 resource that has to fit certain screening
12 criteria and will come through with a point-
13 weighting, basically that says this is how it
14 comes through this model.

15 PRESIDING MEMBER GEESMAN: Could you
16 provide us that in writing?

17 MR. LaFLASH: Okay.

18 PRESIDING MEMBER GEESMAN: Thank you
19 very much. Other questions from up here?

20 Thanks a lot.

21 MR. KENNEDY: Next up would be Southern
22 California Edison.

23 MR. HEMPHILL: Good afternoon,
24 Commissioners. My name is Stuart Hemphill; I'm
25 the Director of Resource Planning for Southern

1 California Edison.

2 Today I want to talk briefly -- first I
3 want to summarize what we filed in support of the
4 CEC's IEPR process. And I also want to talk and
5 discuss some of the policy issues and omissions
6 that are important to Edison, related to the CEC
7 Staff's summary report.

8 First I'll describe our submittal. I
9 think it's largely been described by Kevin
10 earlier, but I will point out what we did file.

11 As requested, we submitted four
12 scenarios. We had a CEC reference case with
13 Devers-Palo Verde 2 transmission line. We also
14 provided a reference case without the Palo Verde-
15 Devers 2 transmission line. We provided an
16 alternate scenario; and we provided an accelerated
17 renewable scenario. We did not file a preferred
18 resource plan as part of the IEPR process.

19 We also provided assessments and
20 detailed discussions and assumptions on a variety
21 of different topics. Generation cost estimates of
22 our submitted scenarios. Local area reliability
23 assessment.

24 We talked about how greenhouse gas
25 adders would affect procurement choices. We gave

1 information related to natural gas and wholesale
2 electricity prices.

3 We discussed the impact of an early
4 retirement of the San Onofre Nuclear Generating
5 Station; and we also had a discussion of returning
6 Mojave Generating Station to service as early as
7 2010.

8 And we also had a scenario evaluation of
9 core/noncore departing load, assuming that 75
10 percent of customers with a peak demand of 500
11 kilowatts or more, would depart during 2009 to
12 2012.

13 We provided data and responses to every
14 topic in the CEC's original request. And our
15 total submittal was more than 3000 pages. And
16 included more than 23 megabytes of supporting data
17 and documentation.

18 We also have spent considerable time
19 with the CEC Staff, and we appreciate the good
20 working relationship we have with them. We've
21 provided supplemental information and
22 clarification regarding our submittal.

23 On June 17th we read the CEC Staff
24 report that was published, and we appreciate the
25 staff's effort in summarizing the IOUs filing in

1 this report. However, the report does not
2 properly represent SCE's position with regard to
3 some important policy issues and contains some
4 factual errors that must be corrected.

5 Since the report is slated to become
6 part of the California Public Utilities
7 Commission's 2006 long-term procurement
8 proceeding, Edison believes it's important that
9 the final version of the report correctly
10 characterize the information provided, and fully
11 reflect the concerns of Edison.

12 PRESIDING MEMBER GEESMAN: Let me make
13 certain that we're on the same page in terms of
14 semantics. What you're about to describe to us is
15 your reaction to a staff report which is not going
16 to become a part of the CPUC's procurement
17 proceeding. A report from this Commission will
18 end up becoming a part of the CPUC's procurement
19 proceeding.

20 MR. HEMPHILL: Thank you for the
21 clarification.

22 PRESIDING MEMBER GEESMAN: The staff
23 report may or may not ever be finalized beyond the
24 level that you're reviewing it today. So we
25 welcome your comments, but I want to make certain

1 that you understand that is a draft staff report.
2 I shouldn't use the word draft; it is a staff
3 report. And what you're ultimately likely to be
4 most concerned with is what the full Commission
5 transmits to the CPUC's procurement process.

6 MR. HEMPHILL: I appreciate the
7 clarification. I'm new to this process, so I'm
8 still learning.

9 The agenda today had us going first with
10 the CEC Staff going second. And so this is a
11 little bit of the cart before the horse. But I
12 felt --

13 PRESIDING MEMBER GEESMAN: And that's
14 okay. The agenda, also, is a staff product, so --

15 (Laughter.)

16 MR. HEMPHILL: Okay. So I thought I
17 would comment on it and perhaps the staff can
18 address these issues later on.

19 PRESIDING MEMBER GEESMAN: And we invite
20 your comments.

21 MR. HEMPHILL: I appreciate that. Okay,
22 the three areas that need to be addressed. The
23 first is the CEC's recommendations on renewables.
24 The second are the conclusions related to the Palo
25 Verde-Devers 2 line. And the third are the energy

1 efficiency and demand response goals in the CEC's
2 reference case.

3 First, the CEC's renewable
4 recommendations. As drafted, the report omits
5 SCE's concerns about the CEC's recommendations to
6 increase renewable portfolio standard beyond the
7 20 percent mandated level of retail sales.

8 The CEC has declined to perform any
9 rigorous analysis of the feasibility of
10 procurement targets above the 20 percent
11 requirements. Relying instead principally on its
12 assessment of the gross renewable resource
13 potential. This assessment did not apply any
14 economic filters to determine what resources can
15 be expected to be developed, and at what
16 installation and operating costs, including
17 transmission costs.

18 Second, the CEC requested that SCE
19 develop an accelerated renewable scenario assuming
20 31 percent level is reached by 2016, while other
21 LSEs had a lower target of 28 percent. The CEC
22 has yet to offer any rational basis for requiring
23 greater renewable procurement targets for SCE,
24 stating only that SCE is already the nation's
25 leader in renewable procurement. Such reasoning

1 for the imposition of an additional burden on SCE
2 is illogical, unsubstantiated by any meaningful
3 analysis and unsound.

4 California has gone to great lengths to
5 insure that resource adequacy requirements are
6 borne equally by all load-serving entities. The
7 same policy should also apply with respect to all
8 procurement obligations in order to assure that
9 the burden of achieving desired policy objectives
10 is distributed equally and equitably among all who
11 are to receive the benefits of these policies.

12 Next I want to talk about Devers-Palo
13 Verde 2. The report's transmission analysis
14 misinterprets the information SCE provided
15 regarding Devers-Palo Verde 2 despite SCE's
16 attempts to insure clarity on the subject.

17 SCE's submittals in the IEPR process
18 attempted to show that Devers-Palo Verde 2 needs
19 to be evaluated on a Cal-ISO basis, as it is a
20 project that will be utilized and paid for by all
21 Cal-ISO jurisdictional load-serving entities to
22 meet their respective customer needs.

23 The most comprehensive and useful
24 information regarding D-PV2 can be obtained from
25 either the CPCN application we filed at the

1 Commission, or the Cal-ISO's analysis, which is on
2 their website.

3 The staff report looks only at SCE's
4 increases in short term and spot market purchases,
5 and reaches the erroneous conclusion that D-PV2 is
6 being utilized only 13 percent. This conclusion
7 is erroneous in two ways.

8 First, the values being used are short
9 term and spot market purchases, not imports, as
10 the report asserts. These purchases are from SP-
11 15, from which the energy may originate within SP-
12 15 or from anywhere outside SP-15.

13 Second, the D-PV2 project will provide
14 access to greater generation for all load-serving
15 entities within Cal-ISO, and not just SCE's
16 customers. The actual usage factor of the D-PV2
17 project cannot be determined based on the data
18 provided in the electricity supply forms.

19 Finally, I'd like to address the energy
20 efficiency and demand response goals of the CEC's
21 reference case. The CEC requested that SCE
22 prepare a reference case assuming energy
23 efficiency and demand response approved in the
24 energy efficiency OIR and advanced metering OIR.
25 However, no credible analysis has been provided by

1 the joint staffs demonstrating that levels of
2 energy efficiency and demand response beyond what
3 SCE would determine as maximum reliable,
4 achievable potential can be cost effectively and
5 reliably achieved.

6 In its IEPR submittals SCE expressed
7 concern that the required goals are not reliably
8 achievable. And submitted an alternate resource
9 plan with energy efficiency forecasts as based on
10 our long-term procurement plan.

11 SCE's demand response forecast is based
12 on SCE's 2005 program proposal reflecting
13 revisions to SCE's demand response portfolio
14 ordered in decision 05-01-056.

15 Accordingly, SCE reiterates that the
16 basis for future recommendations should be the
17 levels of energy efficiency and demand response
18 identified as reliably achievable and economic.
19 SCE's forecast meet these criteria, while the
20 required goals do not. Edison encourages the CEC
21 to reflect these policy issues and correct the
22 specific errors identified today.

23 Thank you.

24 PRESIDING MEMBER GEESMAN: Thanks very
25 much, Stuart. I do have the same questions that I

1 asked PG&E. First, how do you go about applying
2 the directive from the CPUC's December procurement
3 decision that makes renewable procurement the
4 rebuttable presumption or renewable technologies
5 the rebuttable presumption in all procurement?

6 MR. HEMPHILL: Okay, let me first state
7 that I'm the Director of Resource Planning, and we
8 actually do procurement in the other department.
9 But I can generally describe your answer.

10 We also do all-source bid solicitations
11 where we encourage all generators to participate
12 as we look for a very competitive offer. We
13 include a greenhouse gas adder emission at the
14 CPUC's directions And we believe that is the way
15 to incorporate the rebuttable presumption the CPUC
16 was requesting.

17 HEARING OFFICER FAY: So that the one
18 component then that you would add to a
19 nonrenewable bid or a fossil-based bid would be
20 the CO2 adder?

21 MR. HEMPHILL: Well, we would look at
22 the CO2 adders from all generating resources and
23 to the extent renewable also had some element of
24 greenhouse gas adders it would also be included
25 there.

1 PRESIDING MEMBER GEESMAN: Okay. Any
2 other adjustments?

3 MR. HEMPHILL: No.

4 PRESIDING MEMBER GEESMAN: And how do
5 you go about applying the least-cost/best-fit
6 criteria?

7 MR. HEMPHILL: WE look at our overall
8 portfolio for meeting our bundled customers needs,
9 and what we try to do is find products that will
10 best meet the needs in the least cost manner. And
11 we take into account the economics, take into
12 account transmission, the greenhouse gas adders
13 and the effects on the balance sheet in our
14 evaluation.

15 PRESIDING MEMBER GEESMAN: That sounds
16 like a policy. Is there a specific methodology
17 that's utilized?

18 MR. HEMPHILL: We use a methodology
19 that's consistent with that policy.

20 PRESIDING MEMBER GEESMAN: Could you
21 provide us with a written explanation of that?

22 MR. HEMPHILL: Yes.

23 PRESIDING MEMBER GEESMAN: Great. Thank
24 you very much.

25 MR. HEMPHILL: You're welcome.

1 PRESIDING MEMBER GEESMAN: Any other
2 questions?

3 MR. KENNEDY: Next up is SDG&E.

4 MR. ANDERSON: Good afternoon; my name
5 is Rob Anderson; I'm the Director of Resource
6 Planning at San Diego Gas and Electric.

7 I'd first like to just note that SDG&E
8 has reviewed the staff report. We do have a few
9 clarifications and corrections that we would like
10 to see included in the report should an update be
11 provided. We'll be providing those in writing to
12 the staff. None of them, though, are of a policy
13 level that we feel necessary to bring them up with
14 you today.

15 What I'd like to do is highlight a
16 little bit about the cases SDG&E filed and the
17 general assumptions that we made in each of the
18 cases, and how they differed.

19 First of all, we filed four cases with
20 the Commission. First was the reference case.
21 This was heavily driven by the CEC's assumptions
22 regarding energy efficiency, demand response,
23 renewable power.

24 This case did include an assumption that
25 SDG&E would have a new major interconnection in

1 place by 2010. Although I would caution you at
2 this point in time that when that case had to be
3 submitted we were still in the process of studying
4 18 different possible interconnection requests.
5 Therefore you should take what we have in this
6 filing as being rather preliminary and not what
7 may come out of any final interconnection studies.

8 We filed an accelerated renewable case.
9 That case is identical to the reference case up
10 through 2010. And then from 2011 on it just
11 includes the staff's assumptions on additional
12 renewable power.

13 We included a no-transmission case. My
14 caution with that case would be the same as with
15 the transmission case. Since we don't know
16 exactly what the transmission line will do for us,
17 it isn't right now a good assumption to make that
18 that gives the exact difference in those two
19 scenarios will be exactly what will occur without
20 a transmission line.

21 Lastly, we filed an alternative case.
22 And we filed this mainly because as we looked at a
23 lot of the assumptions that were laid out in the
24 other cases, it appeared to us that the vast
25 majority of them had the implication of basically

1 reducing the IOUs load. Because we took very high
2 energy efficiency targets, very high demand
3 response targets, and assumption that community
4 aggregation would take some of our load away, and
5 thus all of those drove down the utility's
6 resource need.

7 And so we wanted to put one case in
8 front of the Commission that showed that all of
9 those may not come true, therefore our needs might
10 be something higher than what those cases may have
11 illustrated.

12 So, once again, not trying to say that
13 that's necessarily what's preferred or that will
14 be outcome, but once again to establish a range of
15 need that the utility may have.

16 In developing these cases we started
17 from new load forecasts. These load forecasts
18 were based on the latest update and all the
19 drivers, as well as reflecting quite the bounce-
20 back that we've seen in demand over the last
21 couple of years as we've come out of the energy
22 crisis.

23 These cases were then reduced by the
24 energy efficiency targets laid out by the PUC. I
25 would like to note that SDG&E has expressed some

1 reservation of those targets, although we continue
2 to use them. As the report notes, the state has
3 adopted targets statewide that are basically 90
4 percent of the maximum potential. However, the
5 targets for SDG&E are actually at 118 percent of
6 the identified potential.

7 We have some programs in the near term
8 that we think we can achieve the near-term goals.
9 We're just very cautious of believing that goal
10 can be obtained in the long term.

11 In the area of demand response, the
12 loads were reduced by 5 percent in all cases but
13 the alternative case. In the alternative case we
14 used a demand response scenario basically
15 capturing the existing programs in the near term,
16 and then ramping up as the AMI project goes into
17 place more in the 2009, '10 and '11 timeframe.

18 With that we ended up below the 5
19 percent in the early years, and actually greater
20 than the 5 percent in the later years.

21 In the area of distributed generation we
22 updated our forecast there, heavily driven by the
23 actual development of distributed generation that
24 we're seeing in our service territory.

25 CCA assumptions, driven by the staff's

1 initial requests, although as I said, in the
2 alternative case we assumed no CCA occurs in our
3 service territory.

4 In the area of renewable power, in all
5 cases we assume that the renewable power should be
6 fully deliverable to SDG&E's load. And that
7 somewhat drove our assumptions in this case. In
8 order to make that happen we're going to have to
9 add transmission, whether it be through the big
10 interconnection project or other transmission
11 projects in order to get that fully deliverable.

12 If you take that assumption away,
13 basically the assumption that SDG&E could buy the
14 renewable power, have it just delivered to SP-15,
15 even though if it can't get in the SDG&E service
16 territory, you could see a different pattern of
17 renewable than what we have presented in the case.

18 And then finally we came down to the
19 last of the resource needs. This could be met
20 with supply side DG, power from existing
21 contracts, repowers or new power plants. And we
22 haven't made any judgment at this time as to what
23 those sources would be.

24 With that, that concludes my remarks.
25 Be happy to answer any questions.

1 PRESIDING MEMBER GEESMAN: Pose the same
2 two questions that I did to both PG&E and Southern
3 California Edison, and acknowledge up front I'd be
4 happy and would hope to get a written response to
5 both questions. But if you'd care to share
6 anything with us verbally now, --

7 MR. ANDERSON: Sure.

8 PRESIDING MEMBER GEESMAN: -- that would
9 be appreciated, as well.

10 MR. ANDERSON: Sure. We will provide a
11 written response. In the area of rebuttable
12 presumption, at this time, and as we stated at the
13 PUC in our last resource plan, if you look at
14 these resource plans you'll see that basically all
15 San Diego is doing between now and 2010 is buying
16 renewable power in order to hit that target.

17 So I actually don't anticipate that
18 we'll be going out for any major RFP for anything
19 but renewable power in the short term. And we
20 don't have any RFPs out on that.

21 So this one may not be one that we will
22 have to test as soon as the other two utilities
23 do. But, we'll get you some comments on how we
24 could implement that.

25 In the least-cost/best-fit test, when we

1 implement that, what we really look at is what is
2 the impact of the total portfolio given the
3 resource addition. So it isn't is that one
4 resource potentially cheaper than another
5 resource, but how does it interact with everything
6 else in the portfolio. And that's how we
7 basically look at the least-cost/best-fit. And
8 that looks at energy cost, ancillary service cost,
9 transmission upgrades and anything else we can
10 possibly model.

11 PRESIDING MEMBER GEESMAN: Thank you
12 very much.

13 MR. KENNEDY: With that, unless there
14 are any additional questions at this point, I will
15 turn it over to Ross Miller from the electricity
16 analysis office to walk through the key findings
17 of the staff resource plan summary report.

18 MR. MILLER: Hello. I'm Ross Miller
19 with the electricity analysis office. And I've
20 got a fairly lengthy summary of our summary. And
21 I will skip over a few of the slides. But if
22 anyone has any questions about any of the slides,
23 feel free to ask them even if I skip over them.

24 I understand the entire slide show is on
25 the web, so people who are asking questions by

1 phone, still feel free to answer them, and just
2 please give me the slide page number to help me
3 focus on the particular slide.

4 I'm not sure, some questions were
5 addressed to staff by Edison. I could respond to
6 some of them now, or I could respond to them while
7 I'm going through the presentation. There's some
8 danger I might forget about the questions when I
9 get immersed in the presentation. But --

10 PRESIDING MEMBER GEESMAN: Why don't you
11 go ahead and try and address them now, Ross.

12 MR. MILLER: Okay. On the issue of
13 staff omitting certain statements that Edison made
14 about the accelerated renewables policy in the
15 2004 IEPR update, the statements that Edison read
16 sounded like statements I recognized from their
17 filing. And staff concedes that those statements
18 were omitted from our summary.

19 The question of did we misinterpret
20 resources that the energy tables submitted by
21 Edison were -- that were coming over Palo Verde-
22 Devers 2 transmission lines in the case with that
23 project, compared to the case without it, whether
24 we misrepresented those as economy energy
25 purchases or differently than what Edison says

1 those resources are in their simulations, we don't
2 have any dispute about that. That detailed
3 information wasn't available, so we appreciate it
4 as a clarification.

5 We did agree and note in our summary
6 that Edison directs the Commission to the more
7 comprehensive analysis of the cost effectiveness
8 of the project that they submitted, which, as they
9 described us taking account the whole region
10 effects, rather than just the IOU portfolio
11 effects that the forms and instructions requested.

12 PRESIDING MEMBER GEESMAN: So your
13 analysis was confined to benefits only to the
14 Edison service territory?

15 MR. MILLER: Well, our analysis was
16 confined to just what Edison provided in its
17 supply filings, and I think those were confined to
18 that.

19 PRESIDING MEMBER GEESMAN: Okay.

20 MR. MILLER: That's why they suggested
21 we not pay much attention to it --

22 PRESIDING MEMBER GEESMAN: Would a
23 similar deficiency exist with respect to the San
24 Diego transmission line, as well?

25 MR. MILLER: It's possible.

1 PRESIDING MEMBER GEESMAN: Well, did you
2 evaluate benefits to the entire ISO control area?

3 MR. MILLER: No, we didn't. No.

4 PRESIDING MEMBER GEESMAN: Okay.

5 MR. MILLER: We just reviewed --

6 PRESIDING MEMBER GEESMAN: Would you
7 agree --

8 MR. MILLER: -- the information provided
9 in the filings by utilities. It's my
10 understanding that staff is doing a more thorough
11 analysis of transmission options in the staff
12 report on that subject.

13 PRESIDING MEMBER GEESMAN: Okay.

14 MR. MILLER: On the issue of the energy
15 efficiency and demand response goals, I'm not
16 exactly sure if there is an issue with staff's
17 characterization in the report. I believe we did
18 note Edison's concerns, whether the goals that
19 were used in the reference case were achievable or
20 not. And pointed out that their alternate case
21 does make a case for only assuming when
22 calculating procurement residual need the more
23 reliably predictable. So I believe that's in
24 there. I may need a clarification of if there's a
25 mischaracterization in the report. But I'm not

1 sure how to proceed on that.

2 I think we have acknowledged the
3 difference of opinion of whether the goals are
4 achievable or not, as reflected in Edison's
5 filing.

6 PRESIDING MEMBER GEESMAN: Okay. I do
7 have a question before you start your
8 presentation, would it be beneficial to invite the
9 various parties that might have questions during
10 your presentation to come up and sit at the table?

11 MR. MILLER: That's fine with me.

12 PRESIDING MEMBER GEESMAN: Okay.

13 MR. MILLER: I can answer questions as
14 we go through the topics --

15 PRESIDING MEMBER GEESMAN: I'm thinking
16 it's probably going to make it more accessible to
17 everybody if they can ask questions as you go.

18 MR. MILLER: That's fine with me.

19 PRESIDING MEMBER GEESMAN: Why don't I
20 ask then, anybody that does anticipate having
21 questions or comments, and I certainly see the
22 three utilities, I see ORA, I see TURN here. I
23 don't know if there are any other parties, but I'd
24 encourage you all to come up and sit at the table
25 if you desire to.

1 On the other hand, saying no is not a
2 problem, either.

3 (Laughter.)

4 MR. LaFLASH: PG&E has no questions.

5 PRESIDING MEMBER GEESMAN: Okay.

6 Anybody have a desire to get in front of a
7 microphone?

8 (Laughter.)

9 PRESIDING MEMBER GEESMAN: Okay, thanks
10 very much. Ross.

11 MR. MILLER: I guess this is a good time
12 to confess I really don't know a whole lot about
13 these subjects. I'm just -- drew the short straw
14 and I'm doing the presentation. But I do have --

15 (Laughter.)

16 PRESIDING MEMBER GEESMAN: We'll keep
17 that in mind.

18 MR. MILLER: -- a variety of expert
19 staff here, so when you ask a question of me that
20 I can't answer, I'll point to one of them and
21 they'll be sure to answer.

22 COMMISSIONER BOYD: Are you trying to
23 draw them to the table?

24 MR. MILLER: Yeah, -- the one caveat is
25 Sylvia Bender, who did the energy efficiency

1 analysis, may not be here till later in the
2 hearing.

3 One other thing I might point out is
4 since the utilities were asked to provide a
5 written description of how they implement the
6 least-cost/best-fit criteria, and particularly how
7 they take into account the December PUC decision
8 on the rebuttable presumption of renewable
9 resources, staff is also interested in the answers
10 to those questions. And I think we attempted to
11 provide what we thought was the answer to those
12 questions in a report.

13 And so if I could direct the utilities
14 to page 3, or basically to paraphrase, it's our
15 understanding that regardless of least-cost/best-
16 fit outcome, the utilities responsible for at
17 least having the minimum percent of renewables in
18 their portfolio that's specified by the Energy
19 Action Plan, 20 percent by 2010, target.

20 And the PUC said also in the December
21 decision that that's considered a floor, not a
22 ceiling. So all solicitations should be open; all
23 source solicitations where least-cost/best-fit
24 criteria are used. And if renewables win on those
25 criteria, including carbon adder, or at the time

1 of the decision there was contemplation of the
2 avoided cost proceeding might also have adders for
3 criteria air pollutants and other environmental
4 effects, that in those solicitations if renewables
5 did best on the least-cost/best-fit criteria, then
6 they would be the winning bids. And the fact that
7 you'd already met your minimum was no excuse not
8 to take the renewable power.

9 So, if the utilities, in responding to
10 the Commissioners' questions, could include that,
11 whether we've got that wrong or whether you think
12 that's right, or any elaboration, staff would
13 appreciate it, also.

14 We did also note that the specific
15 detail of the implementation of least-cost/best-
16 fit is basically confidential, and does differ by
17 utility. And it appears in the public review
18 groups of their procurement activities, and is
19 commented on only in general within the
20 procurement proceeding.

21 So, with that, I'll start going through
22 my presentation. I was reminded to let the people
23 in the web audience know that if you have
24 questions you can call 888-857-6266.

25 The first few slides were already

1 included in Kevin's presentation, so I'm going to
2 quickly flip through those. There was one on the
3 supply forms format; the specified scenarios;
4 additional forms and instructions, requirements.
5 That's what the F&I stands for.

6 And this slide I'll spend a little bit
7 of time on. It's a repeat of the organization of
8 the staff assessment.

9 The focus of this assessment is really
10 to review the myriad assumptions that are used to
11 determine the IOUs' long-term generic capacity and
12 energy procurement needs. That was basically the
13 main point.

14 In the process we also identified some
15 uncertainties in quantifying that. And identified
16 some potential issues that we face in procurement.

17 I'm going to go back to that. The way
18 we structured the report was to start first with
19 the preferred resource procurement mandates
20 including energy efficiency, price responses,
21 demand or demand response, and RPS eligible
22 renewable energy.

23 We went on to distributed generation,
24 which is also preferred resource. There is no
25 specific mandate for that resource as there are

1 for the other three.

2 We talked then about this is basically
3 the way we're grouping this together. And it does
4 follow fairly much the forms and instructions
5 outlined.

6 We talked about existing and planned
7 resources and focused on two categories, the DWR
8 resources and QF contracts. And when you add all
9 those resources and compare it to demand, you get
10 the net open position, or loosely, the need for
11 further procurement.

12 We provided only a qualitative
13 description. Kevin mentioned that just yesterday
14 was published a summary aggregate of energy,
15 annual energy versions of the energy tables for
16 each of the investor-owned utilities for their
17 bundled customer loads and resources. That wasn't
18 agreed on at the time we published this report, so
19 it was excluded. And our section here is
20 necessarily short and descriptive.

21 The bulk of the forms and instructions,
22 besides the resource plans, focused on having
23 utilities provide either sensitivities or comments
24 about the effects -- the impacts of differences
25 between the plans or uncertainties that have to be

1 taken into account when doing the planning.

2 And lastly, we talked about some of the
3 transmission information that was requested in the
4 forms and instructions.

5 This briefly goes over a description of
6 the energy efficiency mandate. The goals were
7 developed basically as an outgrowth of the 2003
8 IEPR by Energy Commission Staff. And subsequent
9 to that -- those were statewide -- subsequent to
10 that the PUC and CEC Staff got together and came
11 up with individual goals for IOUs. And
12 subsequently PUC directed that those goals be
13 included in the procurement plans.

14 To characterize those goals, they
15 basically are thought to achieve 90 percent of the
16 maximum potential that can cost effectively be
17 achieved through aggressive program activity. And
18 that is, you know, 70 percent of what's actually
19 considered to be cost effective potential. The
20 difference is there's a realization that not all
21 the savings can be achieved, even if cost
22 effective by some measure, because there are some
23 people that just will never adopt, or cannot be
24 reached by these programs to implement these
25 measures.

1 PRESIDING MEMBER GEESMAN: Do you have a
2 response to San Diego's comment that in their
3 service territory you've targeted them for 118
4 percent?

5 MR. MILLER: Be careful making
6 generalizations. That's something -- Karen
7 Griffin is going to help me with that.

8 MS. GRIFFIN: Thank you. The PUC has
9 acknowledged that it has set that goal for San
10 Diego Gas and Electric. And it said that in the
11 post-2008 period in the next cycle they're going
12 to have to revisit that goal based on new cost
13 effectiveness information for San Diego.

14 So this report is just reflecting that's
15 what the PUC has directed San Diego to work for in
16 the long term.

17 PRESIDING MEMBER GEESMAN: I'm not
18 clear. Does that mean that 118 percent is an
19 acceptable and desirable target? Or does that
20 mean that it's an error?

21 MS. GRIFFIN: I think people generally
22 believe that if, in fact, it's 118 percent of the
23 maximum achievable that's an error. And the
24 question is whether the maximum achievable is
25 correct or not.

1 PRESIDING MEMBER GEESMAN: Okay.

2 MS. GRIFFIN: And that there are new
3 studies, cost effectiveness potential studies
4 being done right now to try to test that
5 information.

6 PRESIDING MEMBER GEESMAN: And are those
7 likely to be available to us in this cycle?

8 MS. GRIFFIN: No, they will not be. The
9 PUC is not proposing to revisit that goal until
10 the planning cycle for the 2009 funding period.
11 So that would be in 2008, I think.

12 PRESIDING MEMBER GEESMAN: Okay.

13 COMMISSIONER BOYD: I was about ready to
14 ask is this issue therefore off the table.

15 PRESIDING MEMBER GEESMAN: Well, I think
16 we've got to make some kind of adjustment. But,
17 at least we know that it appears to be an
18 erroneous number.

19 MR. MILLER: Well, this is where it
20 would be nice to have Sylvia here, because in a
21 minute I'm going to tell you that we are expecting
22 these studies to be completed in August 2005.

23 PRESIDING MEMBER GEESMAN: Okay.

24 MR. MILLER: I guess it's a consensus of
25 the PIER review groups, and this is a different

1 group than the procurement review groups, and PUC
2 consultants, that the short-term goals, meaning
3 the goals for 2006 to 2008 should all be met.

4 One of the issues in comparing the
5 filings was that each IOU's different method of
6 reporting forecasted savings. Goals over this
7 entire period, 2004 to 2013, were -- well, the
8 goals are expressed through 2013, but the filings
9 were required through 2016. So that was another
10 difficulty comparing.

11 If the question is do they meet the
12 goals, well we didn't have goals for the out
13 years. So some interpretation is required there.

14 The comparisons were complicated and
15 involved comparing both the demand forms and the
16 supply forms. And Sylvia and the utilities'
17 representatives spent quite a bit of time going
18 back and forth and improving the original
19 assessment.

20 And, in fact, we issued an errata that
21 was a result of work she and Edison Staff did
22 almost at the last minute of publication on their
23 alternate case.

24 Both PG&E and San Diego's resource plans
25 include a lag factor, meaning the savings show up

1 not immediately when the funds are expended, but
2 after that, which is expected. And --

3 PRESIDING MEMBER GEESMAN: Well, when
4 you say it's expected, and San Diego and PG&E do
5 it, does that mean that Edison doesn't?

6 MR. MILLER: I think by implication
7 Edison does if they're including only what they
8 consider is reasonably achievable, dependable
9 capacity or firm energy savings. But that's a
10 question for Edison to answer.

11 Is that a fair characterization?

12 MS. HORWATT: Could you restate the
13 question, please?

14 MR. MILLER: I just reported that Edison
15 -- or San Diego and PG&E use a lag factor. And so
16 the question is since I didn't report that, Edison
17 did, does Edison also use a lag factor?

18 MS. HORWATT: We don't use a lag factor
19 in the savings, but --

20 COMMISSIONER BOYD: You're going to have
21 to come up to a microphone, which is why
22 Commissioner Geesman invited people, just in case.

23 PRESIDING MEMBER GEESMAN: You're also
24 going to have to identify yourself.

25 MS. HORWATT: I'm sorry, I'm new at

1 this, too. My name is Andrea Horwatt; I'm from
2 Southern California Edison. And I was part of
3 Edison's Staff that worked with Sylvia on this.

4 To answer the direct question, we didn't
5 have a lag factor, which basically means that in
6 reporting the savings for a given year, what
7 you're doing is not assuming that they'll be in
8 place at the beginning of the year, but rather
9 gradually over the course of the year.

10 We assumed that they would be in place,
11 you know, for the entire year. And so we're
12 reporting, you know, all the savings in a given
13 year in that year. So it's not lagged.

14 In our reference case we do meet the
15 goals as specified; however, in the alternate
16 case, as is indicated here, we do not meet the
17 goals with energy efficiency savings that we think
18 are more reliably achievable.

19 PRESIDING MEMBER GEESMAN: Thank you.

20 MR. MILLER: As far as the issue of how
21 does this affect the procurement, the estimation
22 of what is a residual need that needs to be
23 procured, it becomes important when you do an
24 annual summary of these tables.

25 The information they filed is monthly.

1 So if you're having increasing savings over the
2 course of the year, you'd want to be careful to
3 look at what was available at the beginning of the
4 summer when you selected your annual value.
5 Because if it's available in December of that
6 year, that amount is not available necessarily
7 during the summer.

8 And I think when we did the aggregate
9 summary tables, we took that into account.

10 PRESIDING MEMBER GEESMAN: Steven.

11 MR. KELLY: One quick question. This is
12 going back a little bit, but when I look at the
13 scenarios that you've run, which are the reference
14 case assumptions, accelerated renewables, core/
15 noncore and preferred case in the IOUs, and when I
16 look in terms of this energy efficiency I see
17 you've got an analysis of the IOU assumptions, or
18 what they incorporate.

19 Have you guys run any scenario which is
20 kind of the staff's most likely to occur scenario?
21 Or are you scrubbing that as part of your review
22 of any of these other ones?

23 MR. MILLER: We haven't done that as
24 part of this review. This is all just a review of
25 the utility filings. I don't know whether staff

1 in energy efficiency division has done anything
2 like that. I don't believe we've done any
3 resource planning in our office on top of
4 assumptions about energy efficiency that are
5 considered --

6 MR. KELLY: So, hypothetically if the
7 Public Utilities Commission sets a very large goal
8 for energy efficiency or demand management or
9 renewables or whatever, is there any point at
10 which your process will be looking at the
11 feasibility of that actually occurring within the
12 timeframe that you're overseeing?

13 MR. MILLER: I don't think I can answer
14 that.

15 PRESIDING MEMBER GEESMAN: And, again,
16 as I did for Mr. Hemphill, I'll explain the
17 distinction for you, Mr. Kelly, between the staff
18 and the Commission. The Commission will be the
19 body transmitting the report down to the CPUC.

20 MR. KELLY: Yeah, I understand that. I
21 was just -- what it looks to me is when they build
22 the resource stack they're going to be building
23 assumptions which are based on these policy
24 decisions that have already been made by the
25 various agencies.

1 And I'm just wondering whether the
2 feasibility of attaining those goals is embedded
3 in any one of these resource scenarios that
4 they're looking at, the staff.

5 MR. MILLER: In this review it's
6 definitely pointed out as an issue that needs to
7 be resolved before you can have confidence that
8 you're authorizing the right amount of
9 procurement. And I think some of the utility
10 filings point that out. PG&E points out they need
11 to have flexibility in resources, so you can make
12 adjustment like in the authorization to procure
13 resources, and the types of resources they
14 procure, so you can accommodate changes, either
15 realization the goals aren't going to be met, or
16 realization the goals are going to be exceeded.

17 MR. KELLY: And the final work product,
18 I presume, comes from the Commission to --

19 PRESIDING MEMBER GEESMAN: It comes from
20 the Committee and I think --

21 MR. KELLY: -- will be -- reflect that?

22 PRESIDING MEMBER GEESMAN: -- we are
23 quite mindful of the limits of precision in this
24 area. And I understand there are differences of
25 opinion as to where those limits lie.

1 But I would simply reiterate my own
2 personal belief, we're not working with lasers
3 here. At best we're working with crayons. And
4 more probably we're working with paint brushes,
5 the size of which you'd probably use to paint your
6 house.

7 So you'll have to await our report to
8 determine exactly how we've attempted to strike
9 that balance. But I think we're quite mindful of
10 the limitations in this area.

11 COMMISSIONER BOYD: The only hope I
12 would hold --

13 MR. MILLER: If I do have a laser, I
14 just don't know how to use it.

15 COMMISSIONER BOYD: The only hope I
16 would hold out, Steve, is that as a result of this
17 hearing, in assessing, you know, the resource
18 limitations of this agency, maybe the Committee
19 will ask for more analyses. A lot depends.

20 MR. KELLY: Um-hum.

21 MR. MILLER: We have acknowledged that
22 uncertainties, either about the goals, themselves,
23 or the ability to meet the goals, does affect the
24 residual need. And this slide indicates, and
25 there may be a dispute about this, that there

1 might be new energy efficiency surveys or
2 potential studies available, either completed this
3 year, it is a separate question whether it'll be
4 go through the PUC process and incorporate it into
5 procurement that quickly. I doubt if that would
6 be the case.

7 But, this goes to San Diego's point that
8 the constraints or the goals being set for them
9 can change. And they need to be able to flexibly
10 react to those changes.

11 PRESIDING MEMBER GEESMAN: I guess I
12 would also add, Steven, that this concept of
13 residual need is also, I think, one of the areas
14 that we have to provide some more thought on.

15 It strikes me that the mechanical
16 arithmetic approach that our staff has taken tends
17 to avoid questions like whether the state should
18 pursue a policy in its procurement activities of
19 encouraging retirements. Whether we should
20 encourage a policy of remarketing existing
21 resources that are under contract in order to
22 achieve some level of retirements or turnover of
23 the existing fleet of the facilities.

24 MR. KELLY: I know you know this, but
25 obviously the importance of this is for example if

1 the Public Utilities Commission is going to
2 essentially defer to this process for
3 determination of resource adequacy -- whatever
4 they need, based on this study, you know, it will
5 become important that the numbers, or the
6 information that's presented in here is considered
7 as realistically achievable, at least someplace,
8 as compared to the stretch goals.

9 PRESIDING MEMBER GEESMAN: No kidding.

10 (Laughter.)

11 MR. KELLY: So we're working on
12 realistically achievable rather than the stretch
13 goals, I hope.

14 MR. MILLER: At least an understanding
15 of the difference.

16 MR. KELLY: Good.

17 MR. MILLER: I'm about ready to go on to
18 the next subject, so I'll give everyone warning if
19 they have any lingering questions about energy
20 efficiency.

21 Price-sensitive demand response. The
22 goals were meant to provide an incentive and a
23 benchmark for checking the progress. I'll quickly
24 go through this. These are the goals established
25 for procurement by the PUC. And 4 percent of

1 annual system peak demand by 2006; and 5 percent
2 by 2007 are the targets set; were relevant to this
3 report, since the report starts with the year
4 2006.

5 As this slide points out, there's
6 different ways to think about the megawatts from
7 demand response. Enrolled megawatts is the name
8 given to the maximum possible demand that could
9 come from the number of customers that have signed
10 up for the program.

11 Demonstrated megawatts is not quite
12 having a smoking gun, that it's there when you
13 need it. And it is a discounted number from
14 enrollment. But it is based on some historical
15 experience.

16 And expected megawatts would be a
17 smaller number. And it's a combination of the
18 information you've been able to collect
19 historically. And I'll characterize this
20 conservative judgment about what program savings
21 can be counted on in the future. And the reason
22 it's conservative is because all of the
23 assumptions that go into these capacity resource
24 accounting tables are conservative because the
25 point is to determine whether you have confidence

1 that you're able to meet your reserve margin
2 targets or not, after you look at your demand and
3 compare all your available resources.

4 Have I missed one? This version seems
5 to have taken out a slide that I had in there.

6 Well, it follows from what I just said
7 that I think the preference, at least in
8 estimating residual procurement needs, is that the
9 expected megawatts is what shows up in these
10 tables. That's a different question all together
11 of how the goals should be expressed.

12 They can be expressed in enrolled
13 megawatts, but you need to understand how you get
14 from one term to the other.

15 And apparently there is some confusion
16 about that at the PUC right now. But I
17 understand, and David Hungerford, probably after
18 this slide, might be able to give some information
19 about how they're at least starting to acknowledge
20 and resolve that.

21 Is this provocative? Basically I'll go
22 through this quickly. The goals we have assume
23 that all customers could participate. But really
24 only 40 percent of the load can now participate.

25 Some large customers were precluded from

1 participating in demand response programs because
2 they're already in reliability programs or other
3 ones. And you have mutually exclusive options
4 there as a customer.

5 In some cases the incentive to
6 participate, from the customer's point of view, is
7 small because they're not offered tariffs that are
8 appealing to them. They must be voluntary, and
9 the tariff has to be class revenue neutral.

10 In some cases there's significant
11 expense involved, especially with large air
12 conditioning load customers. And in addition to
13 the expense there's a large effort involved to
14 make these savings occur.

15 There's just -- customers are concerned
16 about the stability of the programs. And some of
17 the smaller customers just lack the expertise.
18 And I think we're talking about transition -- the
19 cost of them taking the action needed to --
20 getting the information and taking the action
21 needed to get the savings.

22 Here's the missing slide; it was just
23 out of order. Or I'm out of order.

24 Are there any questions about price-
25 sensitive demand response?

1 Move on to the next category of
2 preferred resource with a mandate. Part of this
3 was gone over by Kevin earlier. The forms and
4 instructions required two cases with different
5 assumptions about the penetration of renewables.
6 The reference case required 20 percent of the
7 retail energy sales be from RPS eligible
8 renewables by 2010. And an accelerated renewables
9 case required 28 percent by 2016 for PG&E and San
10 Diego, and 31 percent for Edison by that same time
11 period.

12 To provide a benchmark staff developed,
13 and these aren't repeated in the presentation, but
14 do appear in the report, we call them attainment
15 paths to each of those end points, just to check
16 how the annual energy in the filings compared to
17 being on track to meeting those goals in both
18 cases.

19 Using those benchmarks I'll explain the
20 results on the next slide. But staff looked at
21 the project ID, the project output, and whether or
22 not we felt it was an eligible renewable resource.
23 And verified that the filings are okay.

24 And also found that the assumptions that
25 they made, the IOUs made in their filings, are

1 plausible. And the definition there is that they
2 didn't use more than was technically possible.
3 That's not a finding about cost effectiveness. We
4 didn't do --

5 PRESIDING MEMBER GEESMAN: What kind of
6 service territory assumptions did you impose
7 there?

8 MR. MILLER: Where our technological
9 potential numbers are by service territory; if the
10 number seemed to exceed that, and there was other
11 information given that it looked like they were
12 actually counting on a resource that was outside
13 the service area, then we found that plausible.

14 PRESIDING MEMBER GEESMAN: So you were
15 permissive as it related to --

16 MR. MILLER: Right.

17 PRESIDING MEMBER GEESMAN: -- service
18 territory delivery.

19 MR. MILLER: And normally if that
20 occurred, then we checked to see, well, are they
21 assuming there's transmission costs involved. And
22 typically it was all consistent.

23 PRESIDING MEMBER GEESMAN: Okay, so you
24 did then, at least by implication, assume that
25 there was transmission, rather than deliverability

1 would be required, and that that could potentially
2 involve transmission investment?

3 MR. MILLER: Yes. And I think in all
4 cases the utilities identified new transmission
5 upgrades or interconnections would be needed. But
6 didn't identify specific lines, or identify all
7 the costs associate with it.

8 PRESIDING MEMBER GEESMAN: Okay.

9 MR. KELLY: Ross, could I quickly ask a
10 followup on that?

11 MR. MILLER: Um-hum.

12 MR. KELLY: Did they identify
13 transmission -- the transmission expansions, did
14 they identify the timing of that to be consistent
15 with bringing on the new renewables? Or was it
16 simply we expect to bring on these renewables, and
17 by the way, we need transmission?

18 MR. MILLER: Well, we'll jump down to
19 San Diego. They can't get the transmission online
20 in time to meet a graduated even path to
21 attainment, but in their plan it comes online just
22 in time. And if you double your renewable
23 procurement that year, then you've met the target.

24 But their conclusion really is that they
25 can't meet the 20 percent annual procurement

1 target by 2010 without the new transmission line.

2 MR. KELLY: And for the other utilities
3 they had a transmission upgrade plan that was
4 consistent with meeting their estimated levels, or
5 the targets?

6 MR. MILLER: Well, for Edison I don't
7 recall in the text saying it was required, other
8 than what's already been approved.

9 For PG&E it says here that they can meet
10 the 20 percent with inservice area renewables, 20
11 percent by 2010. But it's going to require --
12 well, I think this is in -- they can correct me if
13 I'm wrong, but I think again looking at least-
14 cost/best-fit, they're going to be looking outside
15 MP-15 if they have to go above the 20 percent.
16 And that would require transmission costs, if not
17 new lines. Or, as they point out, cost of
18 renewable energy credits.

19 In both San Diego and PG&E's filings,
20 the possibility of having unbundled RECs
21 satisfying RPS requirement is held out as an
22 alternative to the transmission projects, and the
23 cost. But, of course, they would have costs, as
24 well.

25 MR. KELLY: But if I understand you

1 correctly, for PG&E and Southern California
2 Edison, at least, to meet the 20 percent target by
3 2010 you do not require, as a prerequisite, new
4 transmission.

5 MR. MILLER: I think it -- go ahead, but
6 I'd just interpret it, remember the reference case
7 includes all their transmission projects have been
8 currently approved by last ISO grid expansion
9 plan. So, if you don't consider that new, then I
10 think the answer is they can meet it.

11 MR. LaFLASH: Yeah, --

12 MR. MILLER: Yeah.

13 MR. LaFLASH: -- the slide captures it
14 properly, 173 -- 30 million of generic
15 transmission reinforcements in the service area
16 consistent with a report that we filed at the CEC
17 in 2003 that identified transmission cost ranking
18 areas and which ones would need some amount of
19 reinforcement to receive a certain amount of
20 renewables.

21 So we don't know yet where those
22 renewables are going to be proposed, so it is a
23 generic number. It doesn't tie up any specific
24 area.

25 MR. KELLY: So that has not been

1 approved by the PUC, per se?

2 MR. LaFLASH: Correct, there is no
3 specific project tied to that. But the 20 percent
4 is assumed within the service territory, would
5 that amount of generic reinforcements within the
6 area. Anything beyond 20 percent assumes we would
7 have to go outside the territory, but we didn't
8 specify transmission costs, because as Ross said,
9 we would also look at if RECs were available at
10 that time.

11 MR. KELLY: And those transmission
12 upgrades that are included in that, those look
13 like relatively -- those are not mega --

14 MR. LaFLASH: No, those are several
15 minor transmission, and depending on the pocket
16 that --

17 (Parties speaking simultaneously.)

18 MR. KELLY: -- within a year or two --

19 MR. LaFLASH: Correct.

20 MR. MILLER: What he said. Next time
21 you ask me a question I'll just read my slide. I
22 actually misunderstood what you were asking me.

23 So, to make that clear, PG&E does need
24 more transmission to meet 20 percent by 2010. And
25 they would need even more to meet the 28 percent

1 by 2016 if RECs weren't available as a compliance
2 option.

3 Many issues were identified by the IOUs
4 related to RPS procurement. I've summarized some
5 of them here. And first are above-market RPS
6 compliance costs. And their rate impacts were
7 identified as two separate issues. I've lumped
8 them together here.

9 The fact that they think they're there
10 and not sufficiently understood. This includes --
11 this tries to convey that your expectations of
12 what the costs might be is different if certain
13 conditions exist.

14 So the first one, what will the contract
15 price of the renewable power be. That is a
16 function of what the retailers obligations are
17 individually and collectively. Whether they're
18 increased, accelerated. Whether more retailers
19 are brought under an RPS obligation.

20 Basically the cost of overall compliance
21 is a function of everyone's obligation. The more
22 the total obligation is, the more it's going to
23 cost to satisfy it, as you march up the supply
24 curve.

25 Also, I think San Diego pointed out that

1 the marginal resources could be less productive
2 than what we're seeing now. You might require
3 higher cost technologies to comply.

4 Cost of new transmission
5 interconnections. We were just talking about
6 that. Nontransmission system integration costs.
7 I think Kevin pointed out that there's a workshop,
8 I think, next week on that issue.

9 San Diego pointed out indirect
10 integration costs, firming capacity, and just the
11 cost that the intermittence of some of the
12 resources supposes, as you're trying to deal in
13 the wholesale market, making purchases and making
14 sales, if you're long.

15 Whether the public goods charge funds
16 are adequate to pay for the above market component
17 of the contract price is an issue for an
18 individual IOU's certainty about whether they can
19 meet their goals. It's also a question whether
20 the overall statewide goals can be met, where
21 supplemental energy payments are required.
22 They're not always required.

23 Other issues are deliverability. We
24 mentioned -- and this is actually different from
25 the cost of the transmission, but just the fact

1 can you do it. Can you get it licensed. System
2 reliability and operational consequences. Again,
3 it's different than the cost of integration.
4 There's going to be a tradeoff between how much
5 you're willing to pay and how much you're willing
6 to have reliability or other operational
7 attributes affect it.

8 All pointed out that allowing unbundled
9 RECs for RPS compliance is an alternative to some
10 of these issues. And that's being actively
11 considered at the PUC. And I expect at the
12 Legislature.

13 The theory there is allowing RECs that
14 are designed for this purpose would make
15 compliance across all retailers more efficient.
16 And environmental beneficial, I think that applies
17 to having to build less transmission.

18 And Edison pointed out that RPS targets
19 should not be increased until we've got a better
20 idea of what all the LSEs progress they're making
21 toward the statewide goals.

22 MR. KELLY: Ross, on that latter point,
23 is there any process or mechanism in place to
24 determine what the impediments are for the
25 utilities to achieve these goals?

1 I mean that's kind of a policy
2 declaration that's being made there, so I'm
3 wondering if there's a process to even to make
4 that, existing RPS targets should not be
5 increased.

6 MR. MILLER: I'm just reporting what
7 Edison has in their filing. And I believe that is
8 a policy statement.

9 I also understand, just before I came
10 down here, that there's a ALJ Allen, a common
11 opinion out on participation of LSEs, community
12 choice aggregators, small utilities and multistate
13 utilities in the RPS. And it looks like there's a
14 commitment to move forward on that.

15 Any other questions about the renewable
16 resources?

17 MR. PIGGOTT: This is Jack Piggott from
18 Calpine. Can you hear me?

19 MR. MILLER: Yes.

20 MR. PIGGOTT: I just had a question
21 about how this relates to the tables in the back.
22 I was looking at on page B-2 where PG&E's
23 renewable, it says total existing and planned
24 renewable energy, it seems to diminish.

25 MR. MILLER: The tables that we included

1 in the report are tables that were offered by the
2 utilities for public disclosure. One feature of
3 those tables is that there is no line that tells
4 you exactly what the future renewable procurement
5 will be. That is spread across three or four
6 lines, depending on the utility.

7 So that line you're referring to is the
8 expected future output from existing renewables
9 and renewables that they expect to get from
10 procurement authorizations they've already been
11 given. Not renewables that they would understand
12 they need to get to meet whatever the target is,
13 and then be given authorization to procure in the
14 next cycle of procurement.

15 So the generic -- at the bottom of both
16 the capacity and the energy forms, the residual
17 need is expressed in terms of generic new
18 renewables, generic peaking, generic load
19 following summer, load following year round, and
20 baseload.

21 So that generic new renewables, that
22 incremental amount they have to get authorization
23 to procure is not included in that line.

24 And so you might expect some degradation
25 over time from those resources if you're, for

1 example, geothermal steam field depletion or some
2 of the older units going away; or just contracts
3 expiring.

4 MR. LaFLASH: It's the latter.

5 MR. MILLER: It's the latter PG&E says,
6 contracts expiring. That just moves them into the
7 new category. You don't already have them in the
8 portfolio, you need to go out and do something to
9 get them, or something else.

10 MR. PIGGOTT: I guess I find from this
11 whole report that it lacks specifics, I mean it's
12 such a broad summary and lacks so many specifics,
13 that it's difficult to comment on.

14 MR. MILLER: That made it difficult to
15 do, also. Commissioner Geesman referred to the
16 confidentiality constraints that we're working
17 under. And the new aggregate tables that Kevin
18 referred to earlier actually do separate out that
19 line. I don't have them here in front of me, but
20 they were put on the web, I think, yesterday.

21 So, I believe it separates out the new
22 generic renewable procurement as a line item.

23 MR. PIGGOTT: Okay, and that's not part
24 of this report that --

25 MR. MILLER: That wasn't part of this

1 report, but it's definitely related to it. It's
2 based on the same filings. I mean this is just a
3 procedural distinction. That just came out
4 yesterday, so I don't think we're really allowed
5 to have a public workshop on it the day after.

6 But I believe, as Kevin pointed out,
7 there's at least two future workshops where that
8 will be the subject, including what we're calling
9 the statewide and WECC resource outlook report. I
10 think that will be out July 11th.

11 PRESIDING MEMBER GEESMAN: Jack, this is
12 John Geesman. As I think you know, the
13 Commissioners are also confined to seeing what
14 you're seeing in this report. So we will make the
15 best of it, and certainly welcome your comments
16 and those of any of the other parties as to what
17 interpretation we should provide to the data that
18 has been allowed to be public.

19 MR. PIGGOTT: Okay, thanks.

20 MR. MILLER: Distributed generation. As
21 I mentioned earlier there's no express mandate for
22 distributed generation. There is a line item in
23 the resource plans for that, and the utilities
24 included their best estimates of growth in DG
25 resources.

1 I'll skip to the bottom line here, is
2 there wasn't quite enough information to determine
3 how feasible those forecasts are. We don't really
4 have any reason to think they're not feasible.
5 But, considering the focus of the report and the
6 relative small amounts of DG, that this
7 uncertainty doesn't really cause a big problem
8 when you consider the magnitude of the resource
9 need that we're talking about.

10 COMMISSIONER BOYD: This is a big
11 problem to me, and I chose not to ask each utility
12 when they came forward, but to save it for this
13 slide and this point in time. And just have a
14 general flogging of all.

15 This issue has a priority in all the
16 areas you mentioned, the Integrated Energy Policy
17 Report, the Action Plan, in legislation. It's
18 obviously not well embraced. And you said it has
19 no mandate, which is true.

20 And that all those added together re-
21 raise policy questions for policy folks, I think,
22 about whether this is a policy-starved area, and
23 what is it going to take to light a fire in this
24 boiler, or under some people, or what-have-you, to
25 fulfill the very high priority that it's been

1 given in the loading order, et cetera.

2 I don't have the answer. This doesn't
3 give us an answer. It just gives us some facts or
4 lack thereof. So, to me this is an issue on my
5 list that this policy body is going to need to
6 address. And I'll let it go at that.

7 MR. MILLER: Moving on to the general
8 category of existing and planned resources, of
9 which the existing and planned renewables is one.
10 I'm just not focusing on it here because those
11 were included in the discussion of renewables
12 earlier.

13 This just shows the relatively large
14 contribution of the energy and capacity from the
15 existing DWR contracts to the portfolios of the
16 IOUs. And it shows that those contracts are
17 expiring. And the conclusion there is the
18 utilities are going to have to be authorized to
19 procure resources to replace them.

20 And this degradation of this supply does
21 show up in the estimates of residual need, I'll
22 call it, in the resource plans.

23 A point here is that the replacement
24 resources will be subjected to the procurement,
25 least-cost/best-fit tests and other constraints.

1 So we do expect the sources that replace these to
2 better meet the portfolio needs, and also will
3 have to confirm to the new resource adequacy and
4 deliverability requirements that didn't exist when
5 these contracts were signed.

6 The QF contracts, basically across the
7 board the utilities didn't assume any more than 10
8 percent of their existing QF contracts would have
9 to be replaced. So, ultimately the uncertainty
10 about what that causes in estimating what the
11 residual need is, is relatively small.

12 That's not to say that there aren't
13 policy issues being considered at the PUC right
14 now about what are the terms and conditions under
15 which existing QF contracts might be extended or
16 the extent to which procurement process will be
17 relied on to replace them.

18 MR. KELLY: Ross, this is Steven Kelly.
19 What was the basis for the 10 percent number?
20 What was the rationale behind why 10 percent? Why
21 not 2 percent or 12 percent?

22 MR. MILLER: Well, the rationale was
23 each of the utilities -- I think San Diego
24 basically, they had one -- already renegotiated
25 one of their contracts and the rest they assumed

1 they would be able to, just looking at the
2 particulars of the contracts.

3 And with PG&E and Edison, I think they
4 both did the same thing, you know, looked at their
5 portfolio of QF contracts, they're familiar with
6 them, and made some estimate of which ones were
7 likely not to be -- which of those that their
8 contracts were expiring were not likely to be
9 renegotiated.

10 MR. KELLY: But on that latter point was
11 because they wouldn't want to renegotiate new
12 contracts? Or they wouldn't be able to, or --

13 MR. MILLER: They didn't specify that.

14 MR. KELLY: -- I mean I presume
15 everybody who's got one would like to extend it,
16 but I don't know.

17 MR. MILLER: They didn't specify that.

18 MR. KELLY: They didn't specify.

19 MR. LaFLASH: That was litigated in last
20 year's long-term plan -- The 10 percent number for
21 PG&E was actually the case that we had in last
22 year's long-term plan, and we litigated in that
23 and was found to be a reasonable estimate.

24 I mean it's not every plant lasts
25 forever, so it was assumed just some level that

1 there would be some attrition.

2 MR. KELLY: So that's basically the
3 mechanical attrition of the units, themselves,
4 rather than --

5 MR. LaFLASH: Or parties that may choose
6 to sell to other market players, just attrition of
7 contracts.

8 MR. KELLY: Would that have changed if
9 there are no other market players?

10 MR. LaFLASH: We didn't speculate on
11 that at the time.

12 PRESIDING MEMBER GEESMAN: When you
13 speak of last year's long-term plan, I believe
14 you're speaking of your long-term procurement plan
15 at the PUC?

16 MR. LaFLASH: Yes, we are; the one we
17 filed in July and it was approved in December of
18 last year in 12-04, 12-04-'8.

19 MR. KELLY: Thank you.

20 PRESIDING MEMBER GEESMAN: Thanks.

21 MR. ANDERSON: If I could just clarify
22 San Diego's case. Right now all of our QF
23 contracts, there's only one contract that expires
24 during this planning period. All the rest of them
25 we have under contract throughout the planning

1 period.

2 That one QF is relatively small in our
3 service territory. For whatever business reasons
4 they have, they've tended to want to do five-year
5 contracts and we've been able, at the end of each
6 five-year contract, renew it.

7 So, for San Diego we have assumed that
8 all of the QFs in our service territory remain
9 running. And we don't take the 10 percent
10 discount.

11 MR. MILLER: Thank you. The next slide
12 is that qualitative description of the net open
13 positions, which is the phrase we're using here.
14 It's probably not exactly accurate because the
15 open positions are very detailed descriptions of
16 specific commodities in specific markets. But
17 we're using that term to identify if you do these
18 supply-and-demand energy and capacity tables what
19 do you end up with as a gap when you subtract the
20 estimate of your supply from your estimate of your
21 demand.

22 What we find, and I think can cite
23 publicly, I hope -- it's too late if we can't --
24 is that as we mentioned before, the DWR contracts
25 do provide a large amount, roughly one-fifth of

1 the current energy requirements, and those are
2 going away relatively soon.

3 So what will those be replaced with, and
4 what other resources will fill the growing demand?
5 That's governed by the procurement proceeding, all
6 the policy constraints, and least-cost/best-fit
7 objective. So, the real answer to that question
8 is nobody knows yet.

9 We do expect that as the energy
10 efficiency programs goals increase over time and
11 more of the total energy will be provided from
12 those resources, we know that the renewable
13 procurements are increasing from today's targets
14 to the maximum targets that are specified in the
15 program. The same is true of price response of
16 demand.

17 But at some point the utilities, after
18 the procurement plans are approved, are given
19 authorization to put out RFOs for renewable and
20 nonrenewable power and subject the bids to least-
21 cost/best-fit evaluation.

22 That was confined mostly to the idea of
23 baseload energy. From day one the utilities have
24 short-term, mid-term and long-term need for
25 dispatchable and load-following or shapeable

1 capacity. And they're being authorized now
2 through the current cycle of procurement to put
3 out RFOs to procure portions of that. And
4 basically this is the start of the next refresh
5 cycle for those directions for the utility
6 procurement.

7 An important point utilities made is
8 that there does have to be flexibility in
9 procurement, and there has to be contingency plan,
10 should the resources that are thought to show up
11 end up not showing up. Whether that's a preferred
12 policy resource or any resource. For example, the
13 nuclear power plants could go out tomorrow.

14 This starts a section on impacts, and I
15 am trying to keep this to one slide or commenting
16 on one slide per section, but these impacts or
17 uncertainties were all specifically asked to be
18 addressed in the forms and instructions.

19 The utilities were asked to look at the
20 resource plan cost estimates of the different
21 scenarios. And our conclusion is the information
22 that was provided is not really useful for
23 quantifying the scenario cost impacts, or
24 therefore comparing them. There were a number of
25 reasons for that, which are listed here.

1 That's not to say they weren't complete
2 worthless. I thought the narratives description
3 of the potential cost issues are very well thought
4 out and important. Unfortunately, we just don't
5 have the qualitative analysis to understand it as
6 much as we'd like.

7 PRESIDING MEMBER GEESMAN: I'm not
8 certain what you just said.

9 MR. MILLER: Well, if you look at the
10 numbers, and we included them in appendix D in our
11 report, we basically say don't pay much attention
12 to them because significant -- for these reasons:
13 either significant categories of cost were
14 completely omitted from the accounting. For
15 example, between two cases where you knew there
16 was a new transmission line had to be built, in
17 some cases the cost of that transmission line was
18 not included in the resource cost estimates. So
19 that means that's not the total picture; we've got
20 to be careful to not be too influenced by those
21 numbers.

22 MR. KELLY: Ross, can I ask you, in some
23 cases it was included and in some cases it's not,
24 so there's a lack of consistency?

25 MR. MILLER: In some cases it was

1 included and in some cases it wasn't.

2 MR. KELLY: So all the renewables have
3 been included probably, and nonrenewables probably
4 don't?

5 MR. MILLER: I don't believe all the
6 renewable cost of transmission were included. I
7 think it's not known, especially for -- you're
8 thinking of the one slide where PG&E did identify
9 a certain quantity for transmission. They
10 identified that, but they didn't put it in that
11 table.

12 And San Diego, I don't believe,
13 identified the cost of the transmission project.
14 In fact, San Diego's resource plan cost estimates
15 for the reference case and the accelerated
16 renewables case is a good example. Those two
17 resource plans cost exactly the same.

18 And even though the narrative says we're
19 concerned about all these costs, transmission, the
20 reason they're the same, you know, upon inspection
21 is that they left out the transmission cost
22 difference, and they also made the input
23 assumption that the cost of renewables is the same
24 as the cost of nonrenewables.

25 So the present value of the cost between

1 those plans, under those assumptions, comes out to
2 be identical. So the question is how much do you
3 want to be influenced by that table.

4 So I do refer back to slide 15 where a
5 lot of cost-related issues were mentioned. The
6 cost issues are not confined to renewable policy;
7 it's a factor of -- and we'll get into this later
8 with fuel prices, other regulatory uncertainties.
9 They all ultimately have cost impacts.

10 The next area is local area reliability
11 assessment. I'm careful here to say that the
12 utilities say that it's the ISO's, not the LSE's,
13 obligation to meet local area requirements. And
14 I've heard that in other forums.

15 San Diego specifically points out the
16 decisions that have given the ISO that
17 responsibility. And, you know, the question is to
18 what extent that will continue to persist
19 throughout the planning period.

20 As at least Edison and San Diego point
21 out, is that these resources are dispatched for
22 grid reliability; they're not dispatched to
23 optimize the individual LSE's portfolio. And
24 Edison and I think all the utilities point out
25 that they really don't have the information about

1 the local reliability, at least not up to date.
2 And not the input assumptions that would be
3 required to make a future assessment of what LAR
4 requirements are over the next decade. The ISO is
5 in the position to do that, not the individual
6 LSE.

7 MR. KELLY: Ross, on that for dispatch
8 for, quote, the needs of the grid, for example if
9 there was -- the ISO became aware of an under-
10 scheduling issue or problem, wouldn't the ISO
11 dispatch some of its units under an RAR to meet
12 load?

13 MR. MILLER: Right. So whether it's for
14 a particular physical problem or market power --

15 MR. KELLY: Or underscheduling.

16 MR. MILLER: Underscheduling, right.
17 And so I mean the utilities are not completely
18 unaware of all this. So they have made either
19 rules of thumb, or put in placeholders. They
20 realize that these problems exist and they are
21 going to be responsible for contributing to it.

22 But San Diego's comment here at the
23 bottom is, and I believe Edison, at least, if not
24 PG&E also, think that because it is a control area
25 requirement, then the cost of whatever's required

1 to meet those requirements should be shared across
2 the control area among customers who benefit.

3 How to do that, I guess, is the trick.

4 MS. JONES: I have a clarifying
5 question. It says LAR resources are dispatched
6 for the needs of the grid. Not the grid on a
7 larger basis, you're talking about just the local
8 area requirements?

9 MR. MILLER: Right, the local area grid
10 requirements.

11 MS. JONES: Okay, thank you.

12 MR. MILLER: Or maybe those are mutually
13 exclusive terms. You're right, local area
14 requirements.

15 PRESIDING MEMBER GEESMAN: I think we
16 spent a lot of time on this last year and learned
17 that they were mutually exclusive.

18 MS. JONES: Okay.

19 MR. MILLER: So that's my error. Any
20 other questions about that?

21 MR. KELLY: Ross, I do have one question
22 on that. Under the second point under the first
23 bullet, where the LSEs, individually, cannot know
24 the type, location or amount of future LAR
25 resources. In the context of what you described

1 in the last slide, which basically said there's no
2 consistently on the application of costs of cost
3 resources, I'm wondering how the utilities
4 implement least-cost/best-fit methodology in any
5 scenario when they don't know --

6 MR. MILLER: Taking this factor --

7 MR. KELLY: -- the type, location or
8 amount of --

9 MR. MILLER: -- how do they incorporate
10 this factor --

11 MR. KELLY: -- required future LAR
12 resources. How --

13 MR. MILLER: Yeah.

14 MR. KELLY: How is that accomplished?

15 MR. MILLER: I'll give the general
16 answer. I think as best they can. The specific
17 answer, I think, might be subject to
18 confidentiality constraints. So the simplest
19 thing for me to say is I don't know.

20 MR. KELLY: Well, I think it's --

21 MR. MILLER: The utilities can -- I
22 think that's a good question.

23 MR. KELLY: It's a followup to
24 Commissioner Geesman's --

25 MR. MILLER: Yeah.

1 MR. KELLY: -- point this morning
2 earlier at the beginning about the need for
3 information on the methodology about how they make
4 choices.

5 MR. MILLER: Right.

6 MR. KELLY: It would be helpful if that
7 is publicly available so people could understand
8 that. But for you guys, who apparently have
9 access to redacted information, to not have a good
10 understanding about how they can make a least-
11 cost/best-fit evaluation for renewables or for RAR
12 or anything else, when they say they don't know
13 the type, location or amount of required future
14 resources is beyond me. I don't know how they do
15 it. And I'd be interested to know the methodology
16 to make that happen.

17 MR. HEMPHILL: This is Stuart Hemphill
18 from Southern California Edison. I'd be glad to
19 talk about that. What we're talking about here is
20 local area reliability, which is a Cal-ISO
21 function. And in that area we don't know, and the
22 Cal-ISO cannot provide to us in the current rules,
23 the information necessary to specifically meet
24 their needs.

25 When you talk about least-cost/best-fit

1 that's meeting our bundled customer needs. That's
2 a retail function. And that is something we can
3 know and we do know. And it's something that we
4 do on a day-to-day basis.

5 So these are two completely separate
6 functions. What we try to do in our long-term RFO
7 is try to define something that we think will help
8 the ISO do its job. And so we try to define
9 particular areas where we thought the ISO might
10 need new generation. And we tried to think about
11 the types of services the ISO might need to do its
12 job.

13 And so we're taking our best estimate of
14 something that we think, and probably know, that
15 Cal-ISO might need to meet their objectives. But
16 these are two completely separate procurement
17 objectives.

18 MS. JONES: But isn't it true that in
19 procuring future resources, depending on where and
20 what types of resources they are, you can either
21 increase local area reliability or decrease the
22 need for local area reliability? So they're not
23 independent.

24 MR. HEMPHILL: If you're talking about
25 general bundled procurement, we can certainly

1 state a preference as to where we would like it
2 located. Whether that actually helps the Cal-ISO
3 or not is a question we can't answer.

4 We can attempt to define criteria that
5 we think will help the Cal-ISO, and that's what
6 we're doing in our long-term RFO.

7 PRESIDING MEMBER GEESMAN: This problem
8 is probably best thought of in a time dimension.
9 And I think that the issues were pretty clearly
10 raised last year in your filings with the CPUC
11 probably about midyear. And I'm sorry, I don't
12 know the docket number.

13 But when certain responsibilities were
14 shifted by PUC directive from the ISO to you, I
15 think the issues were pretty well fleshed out.

16 My impression from this slide and the
17 summary of your filings with us, along with your
18 comments today, is that those issues still remain.
19 They've not really been satisfactorily resolved.

20 MR. HEMPHILL: Yeah, like I say, we have
21 rules of thumb about what we think the Cal-ISO
22 needs, and we are attempting to implement those.
23 And, you know, hopefully we'll have, you know,
24 good review by Cal-ISO to make sure it's something
25 that's needed by them.

1 But we're trying to do it in the context
2 of the information available to us.

3 PRESIDING MEMBER GEESMAN: Thank you.

4 MR. MILLER: Another requirement of the
5 forms and instructions was to discuss the
6 potential impact of a greenhouse gas adder on bid
7 evaluations and procurement.

8 This is a very brief summary of what was
9 provided. And, you know, I'd have to say that
10 this has been ordered to be done in the current
11 round of procurement. So a lot more detail on how
12 this is done is getting worked out by the
13 utilities and described, at least to the
14 procurement review groups, and I would expect, if
15 not already, disclosable characterizations of
16 those methods will or have already gotten out.

17 Looking at what was provided in the
18 filings here, basically different approaches are
19 being taken; and whether or not they're consistent
20 with what they were told to do, is hard to say.
21 They were basically told to include it.

22 PG&E doesn't start out with the specific
23 cost of emissions, even though the cost they were
24 told to use has been identified by the PUC. They
25 use a tipping-point analysis where they just

1 compare the bids and see how close they are. And
2 they have a range of costs of what the adder ought
3 to be. And if the difference between the winning
4 bids and the losing bids is anywhere close within
5 that range, then they'll re-examine the bids and
6 look more closely at how those costs might change
7 their decision.

8 PRESIDING MEMBER GEESMAN: And how is
9 that inconsistent with the directive from the PUC?

10 MR. MILLER: I don't think it is
11 inconsistent. I mean if they were to use a
12 different number, if they were not to use it at
13 all, that would be inconsistent.

14 MR. LaFLASH: I can clarify that. When
15 we started this process in probably November last
16 year, we filed the various filings throughout the
17 first four months. The directive from the PUC was
18 to use a range of \$8 to \$25 a ton. They have
19 since come down and said use \$8.

20 So the tipping-point analysis was what
21 we were using at the time we filed this. Things
22 have since been clarified.

23 PRESIDING MEMBER GEESMAN: Thank you.

24 MR. MILLER: Edison's method is
25 described as either giving benefit to any they say

1 contractor, it's a resource that you're evaluating
2 its bid, that would decrease greenhouse gas
3 emissions in its stack, or I assume its portfolio.

4 And any bid that would increase
5 greenhouse gas emissions then it would get an
6 emission cost attached to that bid. And where
7 specific cost was used, then I'm assuming they're
8 using the number that was specified by the PUC.

9 PRESIDING MEMBER GEESMAN: I guess I
10 don't follow how that is consistent with the
11 directive from the PUC.

12 MR. MILLER: Well, I can let Edison
13 answer the question, but I haven't found any way
14 that it would be inconsistent.

15 MR. HEMPHILL: We're asked to evaluate
16 the impact of greenhouse gas emissions by
17 including a \$8 per ton adder in the evaluation
18 process. And we certainly are doing so.

19 I think the best way for me to describe
20 it is in the written documentation that I promised
21 you.

22 PRESIDING MEMBER GEESMAN: Okay. The
23 concern I have, Stuart, is the way this bullet
24 describes it, it looks to me like you are
25 comparing a bid to your current supply stack.

1 Whereas I had understood the PUC directive to be a
2 comparison at the margin of two incremental bids.

3 MR. HEMPHILL: I believe both bids would
4 have the impact of greenhouse gas emissions
5 incorporated and evaluated in their bid.

6 PRESIDING MEMBER GEESMAN: Okay.

7 MR. MILLER: Well, and this is my
8 characterization, so it could be wrong. And what
9 I thought this referred to was what they're
10 actually doing is looking at the emission costs
11 associated with a portfolio with bid A, and then
12 emissions costs associated with a portfolio with
13 bid B in it, and comparing those.

14 And that way you can use \$8, you can use
15 whatever number you want. But you're also getting
16 the induced effect of your existing resources in
17 the portfolio that have their emission profiles
18 changed by the addition of either bid A or bid B.

19 That's the way we used to do it when we
20 did -- when we internalized this externality in
21 our resource planning in the '80s. I can recall
22 that, long ago.

23 San Diego didn't have a specific method
24 that they described, but they did specify features
25 that a method should use. And I've listed some of

1 those attributes here. If there's any questions
2 about them I direct them to San Diego.

3 The last bullet is because these are so
4 different we're not really sure of the pros and
5 cons. We don't really have any reason to think
6 that they're not all compliant or responsive to
7 the PUC's direction. We offer it, you know, if
8 the PUC sees that and thinks that something is not
9 right, or the Energy Commission does, then that's
10 the state of the information as we have it today.

11 I mentioned before that when the least-
12 cost/best-fit criteria was directed to be used in
13 procurement in the December '04 long-term
14 procurement decision, it didn't really define what
15 that was. And I think it left open that that
16 definition would change over time and might vary
17 across utilities. There might be different
18 reasons for significantly different portfolios to
19 define the specifics of a least-cost/best-fit
20 decision criteria differently.

21 PRESIDING MEMBER GEESMAN: Yeah, but is
22 it a methodology, or is it a bumper sticker?

23 MR. MILLER: I think it's a methodology
24 from what I've seen.

25 PRESIDING MEMBER GEESMAN: Okay, and

1 that's what we'd requested.

2 MR. MILLER: A fairly complex one, and
3 is -- I don't think you could characterize it as a
4 spreadsheet that you could put in bids and know
5 what the answer's going to be. I think there is
6 judgment involved. And that's one of the reasons
7 that -- that's one of the aspects that the public
8 review group has asked to weigh in on, is the
9 judgment. Too much judgment, too little judgment,
10 is the quality of the judgment acceptable --

11 PRESIDING MEMBER GEESMAN: Who is the
12 public review group?

13 MR. MILLER: I'm sorry, the procurement
14 review groups.

15 PRESIDING MEMBER GEESMAN: The nonpublic
16 procurement review group.

17 MR. MILLER: Yes. The noncommercial
18 market participants that participate in those.

19 PRESIDING MEMBER GEESMAN: Well, we're
20 looking forward to an explanation of just what
21 that methodology that each company uses is. And
22 we'll wait until we get that before making any
23 pronouncements about it.

24 MR. KELLY: Ross, can I just add one
25 thing, because I'm not sure that I'll actually be

1 able to see the methodology.

2 But, I've always -- I'm a little
3 confused here -- I've always kind of assumed that
4 the utilities would get two bids and they would
5 have some mechanism to estimate what the emissions
6 by tonnage would be over time. They would impute
7 an \$8 per ton value to that over time. And then
8 net present value it. And then take the winner.
9 Is that what's going on?

10 MR. MILLER: When I think of the term
11 adder, that's what immediately comes to mind.
12 What happens there is, and this is, you know, part
13 of the details of comparison that we tried to deal
14 with in ER90, 92 and 94s, well, what if you have,
15 how do you differentiate the cost of say a new
16 combined cycle with whatever the latest emission
17 control is, and a bid that might be a ten-year
18 contract with an existing steam boiler unit.

19 One is more efficient than the other.
20 One produces less global climate change emissions
21 than the other. And the question is shouldn't the
22 one be given -- if you put the emission costs on
23 both of those, one will appear to perform better
24 with respect to the least-cost/best-fit criteria
25 than the other.

1 MR. KELLY: Right, but you're applying
2 that \$8 on a per-ton basis.

3 MR. MILLER: That is a head-to-head
4 comparison.

5 MR. KELLY: So if you have an estimate
6 of what that per ton is per bid --

7 MR. MILLER: Right.

8 MR. KELLY: -- unit, you can do it. But
9 I can't tell if they're actually doing it that
10 way. I mean I don't know how they're doing it,
11 but --

12 MR. MILLER: And that's what we're
13 looking forward to seeing the details of.

14 Well, another aspect of that is the bids
15 don't necessarily provide the same amount of
16 annual energy, the same performance. And by
17 looking at its impact on the total portfolio
18 you're able to capture climate change benefits
19 that are induced in the way the other resources
20 are displaced, or the performances otherwise
21 changed.

22 PRESIDING MEMBER GEESMAN: As modeled.

23 MR. MILLER: As modeled.

24 PRESIDING MEMBER GEESMAN: I didn't see
25 in the PUC December procurement decision a

1 directive to include this adder in bid evaluations
2 on a modeled basis.

3 MR. MILLER: No, it doesn't say that.

4 Going to the next subject, natural gas
5 price forecasts. I'm going to show you some
6 slides here that have information that we've added
7 since the report was published for two reasons.

8 One is since the report was published
9 it's been clarified that the forecasts from 2009
10 to 2016 can be disclosable. We didn't have that
11 clarification when we published, so they were left
12 out. Just described qualitatively.

13 And the other addition is that we have a
14 new staff forecast available now that we didn't
15 have then. And because the forecast staff used as
16 a benchmark for the plausibility of the IOU
17 forecasts was part of our report, we felt we
18 should let people know that we've changed that
19 benchmark.

20 The different ways to forecast natural
21 gas prices were all employed in the utility
22 filings. Nymex future quotes were used for short-
23 term and even longer term price forecasts in some
24 cases. The fundamental market analysis models
25 were used. And different types of time series or

1 projections based on historical price trends were
2 also used.

3 I'm going to go on to this slide. This
4 slide, if I can get this to work. Without these
5 three lines this is, I think, table 7-3 in the
6 report. And these are Nymex quotes that were
7 taken at a point of time later than when the
8 utilities made their filings. And the staff point
9 there was because over this period from when the
10 utilities did their work and we did our review,
11 Nymex prices, future prices were going up.

12 And what those quotes are tends to
13 determine the starting point for your forecast,
14 whether you switch to fundamental model or a trend
15 analysis. It has a material effect on what you're
16 forecast ends up being.

17 These were the Nymex quotes at the time
18 we were reviewing it. This is the staff
19 preliminary price forecast that we compared
20 qualitatively against the utility forecasts. And
21 these are the utility forecasts which we couldn't
22 divulge quantitatively at the time.

23 So we did describe that Edison and San
24 Diego had a similar trajectory but started at
25 different points. And that was a function of the

1 Nymex quotes they used, which were down lower
2 here. And PG&E's was quite different in that it
3 never did increase over the planning period.

4 The next slide here is taking that same
5 slide and adding the staff forecast, which was
6 just published, and just, you know, one
7 observation is that it's starting to close the gap
8 between the original staff benchmark and at least
9 the highest of the three utility.

10 Now, I think the staff concluded that
11 the methods that each utility employed were
12 rational, but there's so much variability in the
13 outcome depending on which quotes you're using;
14 whether you use a single quote; whether you use a
15 rolling average of quotes. And also whether you
16 switch to a fundamental forecast or some type of
17 trajectory based on implied heat rate.

18 So the bottomline is the results can
19 still be all over the map even if people generally
20 agree that the methodologies are not implausible.

21 PRESIDING MEMBER GEESMAN: And we're
22 going to have a workshop in July --

23 MR. MILLER: Right.

24 PRESIDING MEMBER GEESMAN: -- on the gas
25 forecast.

1 MR. MILLER: Electricity prices,
2 basically the wholesale electricity price forecast
3 is a function of the gas price you put in it
4 largely. So we backed out the individual gas
5 price forecast and just put in a staff forecast
6 for the purpose of assessing the electricity price
7 forecasting technique. And we basically concluded
8 that those were fine given the input assumptions
9 that were being used about gas.

10 Forms and instructions asked for the
11 utilities to comment on what would be the impacts
12 on their portfolio in procurement activities if
13 the large nuclear units were to retire early. And
14 Edison and San Diego provided an assessment of
15 what would happen in the absence of San Onofre
16 Nuclear Generating Station Units 2 and 3. And,
17 you know, the loss of 2100 megawatts plus the
18 assessment that much of the replacement capacity
19 would need to be inbasin because of local
20 reliability constraints. And also to maintain the
21 import capability.

22 Obviously if this were replaced with
23 gas-fired resources there would be higher gas
24 demand. And it's possible that a new 500 kV
25 transmission lines or static VAR compensators

1 would be among the upgrades to the transmission
2 grid that would be required to mitigate negative
3 impacts on the transmission system.

4 There was no filing about Diablo Canyon
5 made.

6 PRESIDING MEMBER GEESMAN: With respect
7 to SONGS --

8 MR. MILLER: Unless I missed it.

9 PRESIDING MEMBER GEESMAN: -- were the
10 transmission upgrades identified or quantified in
11 terms of costs?

12 MR. MILLER: No. Neither by project or
13 cost.

14 PRESIDING MEMBER GEESMAN: And was there
15 any explanation from PG&E as to why they did not
16 make a filing?

17 MR. MILLER: I think they're about ready
18 to provide it.

19 PRESIDING MEMBER GEESMAN: Okay.

20 MR. LaFLASH: We misunderstood the
21 request at the time because we had already had our
22 steam generator replacement program approved by
23 the Commission. But we are more than willing to
24 file that information. We had all that
25 information already on file at the Commission in

1 that proceeding, so we'll provide copies of that.

2 PRESIDING MEMBER GEESMAN: That'd be
3 helpful. Thanks.

4 MR. MILLER: Edison was also asked to
5 look at the impact on their portfolio if the
6 Mojave Generating Station were returned to their
7 portfolio. And this describes what the impact
8 would be.

9 This is pretty much right from their
10 filing, and if I could try to check my
11 understanding of it, because it's perceived to be
12 a low-cost energy resource it would be dispatched
13 at a high capacity factor. So you'd find it
14 displacing energy from capacity resources of equal
15 amounts to a greater degree. So you'd expect
16 there might be some, if you could realize them,
17 depending on, you know, contract conditions,
18 there'd be some energy cost savings.

19 And it expressly says that it would be
20 avoiding the fixed cost of the other resources
21 you'd otherwise get.

22 I don't believe their filing says one
23 way or the other whether they expect the energy
24 cost differences and the capacity cost differences
25 to be greater or less. I think you obviously have

1 to wait for procurement results to know that.

2 MR. KELLY: Ross, Steve Kelly again,
3 real quickly. I mean earlier in the slides there
4 was an indication that the utilities primarily
5 needed dispatchable resources, not baseload
6 resources.

7 MR. MILLER: Right.

8 MR. KELLY: And I presume from that that
9 any baseload resources that would be bid would
10 be evaluated in some manner, unknown to me, but in
11 some manner against the need for dispatchability.
12 Is this facility being treated the same way?
13 Because here you're suggesting that it's going to
14 displace the dispatchable resource that they need,
15 but I don't see the other baseload units being
16 evaluated in the same manner.

17 MR. MILLER: I think, and Edison can
18 correct me, Mojave is not in the resource plan at
19 all during the planning period 2006 to 2016. So
20 if it is going to come back into service it exists
21 out there as an option in the market. And if
22 Edison, looking at its resource needs, thought it
23 was attractive to take this option, it would have
24 to either go through the procurement least-
25 cost/best-fit competing with other options where

1 portfolio fit, including -- this is a baseload
2 resource and we may not need baseload energy.
3 Depends on the comparative economics.

4 MR. KELLY: Is that Edison's
5 understanding, that this facility --

6 PRESIDING MEMBER GEESMAN: Let me jump
7 in here, Steven, because I think Ross may have
8 been a little speculative. My recollection is
9 that this is a scenario that ORA asked us to look
10 at, so that it is constructed at their suggestion.
11 How the results would be applied by the CPUC, I
12 don't think we have any insight into. Unless
13 you'd care to comment on it, Stuart.

14 MR. HEMPHILL: Well, I can at least
15 describe a few things and clarify a few things. I
16 have not been shy over the past two years to talk
17 about what types of needs we have over the next
18 decade.

19 We do have a primary need for
20 dispatching dispatchable peaking and intermediate
21 resources, but that subsides at the end of the
22 decade.

23 Usually when we're asked to look at
24 Mojave, and we've been asked many times to look at
25 it, it's around the 2010/2011 timeframe when we

1 actually do have a baseload need.

2 The big concern we have about Mojave is
3 we don't know what the fuel costs or what the
4 water costs are. There are also some permitting
5 issues associated with Mojave. And so it's a very
6 difficult evaluation to be able to get your arms
7 around.

8 PRESIDING MEMBER GEESMAN: But you did
9 make some assumptions about fuel and water and
10 refurbishment costs in this scenario?

11 MR. HEMPHILL: I believe we provided a
12 description here. We've done this type of
13 evaluation in PUC proceedings on this topic over
14 the past couple of years.

15 PRESIDING MEMBER GEESMAN: Thanks.

16 MR. KELLY: Stuart, real quick, is this
17 facility -- when you evaluate it is this facility
18 being run through the same least-cost/best-fit
19 methodology that you're applying to everything
20 else?

21 MR. HEMPHILL: We use, when we evaluate
22 any resource we always look at a least-cost/best-
23 fit evaluation.

24 MR. KELLY: But it's the same
25 methodology?

1 MR. HEMPHILL: Yes.

2 MR. MILLER: I think that's all I meant
3 to imply, that either it would have to go through
4 the established procurement proceeding in
5 competition with other resources, or it would be
6 an application that Edison made, which would
7 effectively be subject to the same comparison.

8 PRESIDING MEMBER GEESMAN: Yeah, I think
9 you guys call those unanticipated fleeting
10 opportunities.

11 MR. HEMPHILL: Yes. There's a lot of
12 those still.

13 MR. MILLER: Getting close to the end
14 here. A specific scenario was specified for
15 assumptions about departing load. And I'll call
16 it here the low load case.

17 Basically by 2012 75 percent of the 500
18 kV or greater customers were assumed to be -- left
19 bundled service. Neither Edison nor San Diego
20 actually filed that case. San Diego did file an
21 estimate of what that load change would be, and a
22 description of how their portfolio might be
23 affected, which I've included here on the slide.

24 An important point they make is that
25 just because this load isn't in their bundled

1 customer, it's still in the basin, and would have
2 no effect on inbasin resources or transmission
3 requirements.

4 As far as San Diego's portfolio, if that
5 much load were to leave then they'd end up with
6 fairly high reserve margins.

7 PG&E filed, if you look at their three
8 cases, their reference case, their preferred case,
9 and their noncore case, they describe a range of
10 load that's basically what their current direct
11 access is to 50 percent in their preferred -- 50
12 percent of this class of customers of greater than
13 500 kV leaving, and 75 percent in this scenario,
14 which they did file a core/noncore case.

15 And their main point about this is this
16 is possible, without saying how probable either
17 case is, but just the fact that it is possible
18 argues that the utilities' procurement strategies
19 ought to be flexible enough and include long-term,
20 mid-term and short-term contracts that could be
21 adjusted as they experience these types of major
22 shifts in customer base.

23 PRESIDING MEMBER GEESMAN: You described
24 San Diego's explanation. Did Edison provide one?

25 MR. MILLER: I can't recall if they did.

1 The next slide basically, I guess, explains.
2 Their position is that they don't have the
3 information to make a reasoned estimate. So
4 rather than provide it, they didn't; and caution
5 that, you know, procurement -- and this is an
6 important point that if we're talking about
7 knowing how much resources we have to authorize to
8 procure, these are the type of speculative
9 assumptions we really need to get a better handle
10 on.

11 And this goes to the issue of, as San
12 Diego points out, under current policy the IOUs
13 are the providers of last resort in their
14 distribution service territory. So they could end
15 up having to serve this load even if they're not
16 authorized to procure resources, assuming it's
17 there.

18 Sam Diego identified the issues about
19 the threshold of demand to qualify for direct
20 access, ability to aggregate the load, the timing
21 and the notification rules for switching back to
22 bundled service really need to be resolved before
23 you can come up with a reasoned estimate -- I'll
24 use that as a term -- of what the departing load
25 potential might be. And you need to have that

1 before you can estimate what the resource
2 requirements would be under those conditions.

3 But, you know, they recognize they do
4 have some jeopardy here because ultimately if and
5 when it happens, they'll be expected to provide
6 the resources for it, if the load returns.

7 PRESIDING MEMBER GEESMAN: Doesn't sound
8 like any of the companies placed reliance on some
9 of the language from the PUC's December decision
10 about exit fees and disallowances of any cost
11 shifting and forcing obligations to go along with
12 departing load.

13 MR. MILLER: I didn't see anything in
14 the supply filings. Any questions or comment on
15 that?

16 Last category is transmission. This had
17 a variety of requirements. One was expressly if
18 the reference case included a major new
19 transmission project we wanted a case without that
20 project for the purpose of identifying what the
21 impact of the transmission was.

22 PG&E included in all of its scenarios
23 just the transmission facilities that have already
24 been approved in their grid expansion plan. But
25 did point out that in order to achieve some of the

1 other cases, particularly the -- well, actually in
2 order to achieve their current 20 percent by 2010
3 RPS requirement, they would need additional
4 transmission. And on top of that some
5 interconnection costs. And there would be other
6 transmission required for the higher obligation.
7 That wasn't identified, or the price estimated.

8 Edison's case includes, in the reference
9 case includes the Devers-Palo Verde 2. We've
10 talked about this a little bit already. There's
11 an application at the PUC for approval of this
12 project right now. We mentioned this in the
13 context of resource plan costs. They've directed
14 us to look at the IOUs area analysis of this
15 project, rather than the more narrow portfolio
16 look that the forms and instructions describe.

17 PRESIDING MEMBER GEESMAN: Let me break
18 in there, that we have been pretty complimentary
19 of the ISO analysis of the Devers-Palo Verde 2
20 project. The criticisms that we've talked about
21 in earlier workshops have tended to criticize the
22 ISO methodology as unduly conservative, which I
23 would suspect would only go to emphasize that
24 there's more benefit to the project in terms of
25 the methodology that our staff, our transmission

1 staff has thought should be applied than even the
2 ISO analysis has shown.

3 MR. MILLER: I'm mindful of the comments
4 made about staff's mischaracterization of the
5 filing that Edison made with respect to Palo
6 Verde-Devers 2. So if there's anything in this
7 slide that's not correct, let me know. I don't
8 think I repeated the offending passage in the
9 report in this slide.

10 They did note that the accelerated
11 renewables case would require additional
12 transmission and operation challenges. And I
13 believe in Edison's cost comparison of cases they
14 did include some estimate of costs for
15 transmission, but with the caveat that it's not
16 the total -- they don't believe it's the total
17 cost because there's information about -- the
18 specificity is just not there or known to come up
19 with a dependable cost estimate yet.

20 MR. KELLY: Ross, does the Edison
21 reference case include the Tehachapi line?

22 MR. MILLER: I don't recall it
23 specifying that. That doesn't mean it wasn't
24 there.

25 MR. HEMPHILL: Maybe I should just sit

1 by you, Steve.

2 MR. KELLY: There you go, grab a seat.

3 MR. HEMPHILL: Actually I will. What we
4 did when we looked at our different scenarios was
5 to look at things that we thought would change
6 between the scenarios; and also to look at those
7 things that would impact our overall procurement.

8 And for the Tehachapi line we included
9 it in every scenario. So there's really no
10 differential between the scenarios.

11 MR. MILLER: San Diego. As we
12 previously heard the reference case does include a
13 new 500 kV bulk transmission project which they
14 say is required to be able to meet the 20 percent
15 by -- whoops, that should say by 2010 renewables
16 goal.

17 They also think that they need new
18 transmission -- if they can't get local generation
19 to meet local reliability requirements. And the
20 concern there is whether there is sufficient air
21 pollutant offsets to provide inbasin generation
22 that would be alternative to transmission.

23 We didn't feel we had enough information
24 in either filing, either the supply filing or the
25 transmission filing, to verify either of these

1 claims. But we didn't think they were all that
2 outlandish.

3 That's the end of my presentation. Have
4 any other questions from the survivors?

5 PRESIDING MEMBER GEESMAN: Scott.

6 MR. CAUCHOIS: Scott Cauchois, ORA. I
7 thought, just referring to a couple of things that
8 have come up. On the question of Mojave we
9 recommended that it be looked at as a, you know,
10 in-and-out type of scenario. And ORA would hope
11 that if Edison proceeds with Mojave that it would
12 do so on the basis that it's economic.

13 And I think the reason that we
14 recommended that it be just considered in this way
15 is that it is an open proceeding at the PUC. And
16 somewhat of a wild card. And as everybody knows,
17 has issues of water, jobs for Indian tribes, jobs
18 for coal miners. And there are proposals by
19 renewable folks to put something out there. So it
20 may just -- there's always that risk that it could
21 take on a life of its own and not proceed the way
22 it's ideal to us.

23 And then I have a --

24 PRESIDING MEMBER GEESMAN: When you say
25 economic, Scott, do you mean subjected to the same

1 type of review in the procurement process?

2 MR. CAUCHOIS: Yes.

3 PRESIDING MEMBER GEESMAN: Okay.

4 MR. CAUCHOIS: And then on the departing
5 load, yeah, I sympathize with Edison. I mean it's
6 true that you can look at departing load from a
7 probablistic standpoint, or speculate there could
8 be a core/noncore market. And the PUC has been
9 promising that we'll make all you IOUs whole.

10 But what's a complete unknown is the
11 conditions going the other way, which is the
12 conditions under which they might come back.

13 PRESIDING MEMBER GEESMAN: The re-entry
14 rights.

15 MR. CAUCHOIS: The re-entry rights, or
16 in our preference, the non re-entry rights.

17 PRESIDING MEMBER GEESMAN: Um-hum.

18 MR. CAUCHOIS: In other words, there
19 have been proposals to completely segregate the
20 markets the way gas is, which again changes the
21 risk profile for the utility completely.

22 Or on the other hand if there are
23 entities in the country that have fairly smooth
24 re-entry rights, but in those cases they have a
25 strong, you know, ISO-type of backstop market to

1 make sure that costs aren't imposed on bundled
2 ratepayers.

3 So, it's that other type of switching
4 that ought to be of concern including even
5 existing direct access. I mean there's nothing
6 that makes existing direct access some sort of a
7 permanent feature. The utilities are, essentially
8 today, the providers of last resort for that load.
9 So, --

10 MR. HEMPHILL: If I could add something.
11 This is an industry that's dominated by the retail
12 structure. And what happens in the retail
13 structure defines how the wholesale structure will
14 unfold, and how generation will be financed, and
15 everything else. And that's why it's absolutely
16 critical that we get our arms around what the
17 future retail structure will be for the industry.

18 MR. CAUCHOIS: And you may have your
19 arms around it after the November election, I
20 mean, you don't know.

21 MR. HEMPHILL: I think there'll still be
22 some implementation details beyond that.

23 PRESIDING MEMBER GEESMAN: You mean
24 teacher tenure is going to impact this?

25 (Laughter.)

1 PRESIDING MEMBER GEESMAN: Or
2 reapportionment?

3 But, Scott, you're more concerned about
4 the return uncertainty than the departure
5 uncertainty?

6 MR. CAUCHOIS: Well, I mean if I were a
7 utility trying to plan resources, I mean I suppose
8 I'd be much less risk averse than say Edison is
9 today, from the point of view of who could depart,
10 in the sense that if I signed a contract and some
11 load left, the PUC has said, okay, we'll make you
12 whole, or we'll charge exit fees.

13 But the current structure still has
14 Edison as the provider of last resort. So can
15 Edison, you know, just or a utility just say,
16 well, now I can just ignore those customers
17 forever. No, they can't do that. And those
18 rights of return haven't been spelled out. You
19 know, I mean that core/noncore structure is sort
20 of, you know, stalemated for right now anyhow.

21 But, if you were to -- I mean, I agree,
22 if you were to adequately do a scenario around
23 this then you might as well specify the different
24 sets of rules that might apply, such as are you
25 going to completely segregate the core and the

1 noncore markets in which they both carry their own
2 obligations and that's it.

3 Or are they not completely separated;
4 the noncore has some right to return to core. And
5 which, you know, which creates a different set of
6 questions for the utility.

7 So I'm just saying there are a lot of
8 assumptions about what type of a core/noncore
9 structure you have that dictate what the risk
10 profile is for the utility.

11 MR. HEMPHILL: To add a little flavor
12 there, during the crisis we had a period where 10
13 billion kilowatt hours became our obligation. And
14 then it disappeared over a matter of a couple of
15 months. That's a lot of procurement. And if you
16 don't know how much to plan for, you'll either
17 over-procure, which is less of a problem, or
18 under-procure, which can be a substantial problem.

19 And so in that case I definitely agree
20 with Scott.

21 MR. LaFLASH: I wanted to expand on
22 Scott's in the same extent that Stu did, is that
23 if you have stranded costs it's a financial issue.
24 If you don't have enough resources the lights go
25 out.

1 We think resource adequacy is a key
2 issue that if someone else is going to be
3 providing that load they need to have adequate
4 resources behind them, need to meet a certain
5 counting standard.

6 I probably should respond to what
7 Commissioner Geesman brought this up earlier, but
8 I got tired of jumping up and down so I thought
9 I'd take a seat, too. We do believe in the
10 protections of the stranded cost and exit fee
11 provisions of the PUC's December decision. But
12 we're still trying to be responsible about it and
13 make certain that we're not over-procuring. We're
14 trying to keep those stranded costs down.

15 But we do have the concerns that Scott
16 has, is that if they come back and we didn't
17 expect them to come back because they didn't
18 provide their own adequate resources, then we have
19 a reliability problem.

20 PRESIDING MEMBER GEESMAN: And, Stuart,
21 do you share what I think both of the two prior
22 comments suggested, that the return right is a
23 much larger problem than the departure right,
24 giving some credence to the PUC's pronouncements
25 on exit fees?

1 MR. HEMPHILL: Yeah, when I look at the
2 cost of blackouts to California, it's immense.
3 Yes, there are stranded costs and elements of
4 over-procuring indirect access, but I have a
5 greater concern that customers needs won't be met.
6 So I agree with my PG&E counterpart.

7 PRESIDING MEMBER GEESMAN: Okay.

8 MR. KELLY: Could I weigh in for just a
9 second on this because while I agree with the
10 comments that resource adequacy is theoretically a
11 tool to help mitigate the lights going out and all
12 those problems, I don't necessarily agree that --
13 I mean the provider of last resort in California
14 today is essentially the ISO.

15 The return DA customers, in my view, are
16 really no different than what occurs when there's
17 under-scheduling. You get load showing up in a
18 real time that the ISO's serving under RMR
19 contracts, or whatever contractual rights it has
20 to run units. And that obligation has essentially
21 shifted off the utilities' back in real time into
22 the ISO, if they under-schedule, which is almost
23 equivalent, from an engineering perspective, as if
24 DA load shows up in real time that they hadn't
25 contemplated for.

1 I don't see they're really that
2 different.

3 MR. HEMPHILL: Mr. Kelly, I would
4 encourage you to talk to the Cal-ISO. Over the
5 last two weeks they've determined that it is the
6 ESPs that under-schedule and not the utilities.

7 MR. KELLY: Any ESP that under-
8 schedules. But the return of DA, for example, in
9 real time, which was a problem that was raised, is
10 really very similar. It's just energy demand
11 showing up in real time. And the ISO is the one
12 that ends up stepping up and serving it through
13 its RMR contracts.

14 MR. LaFLASH: Steve, I'll bet you the
15 headline doesn't read: ISO customers blacked out.

16 MR. KELLY: I'm just telling you
17 mechanically what occurs. So it doesn't do any
18 good to mischaracterize it here when we're amongst
19 ourselves talking about what's really going on in
20 California.

21 I mean if it's going to be used as an
22 argument for why DA is good or bad, we should at
23 least characterize it properly.

24 MR. CAUCHOIS: Well, I mean I think
25 you're only partially right. When I see the ISO

1 have the ability to either, you know, black those
2 customers out of the entity that was short, or
3 assess the full cost of that shortage to those
4 customers, then I'll say the ISO has the problem.

5 MR. KELLY: Well, I --

6 MR. CAUCHOIS: But not just the ability
7 to assess RMR costs to everybody in whatever
8 region it is that pays the RMR costs.

9 MR. KELLY: Well, right. Now, though,
10 effectively what happens is the ISO will, under
11 its tariff rights, run as much generation as is
12 available to meet the load. Now, if there isn't
13 enough generation in the region to meet the load,
14 then you're going to have the blackouts. But the
15 ISO will run what it can up to its price controls.

16 So it turns out to be a mechanism to
17 lean on the -- you know, it allows load to be
18 served up to the price caps.

19 MR. HEMPHILL: That assumes that the
20 resource adequacy is not being met. Is that your
21 assumption? I mean the whole point of --

22 MR. KELLY: Well, in real time, yeah.

23 MR. HEMPHILL: Well, in real time --

24 MR. KELLY: I mean resource adequacy is
25 a forward obligation.

1 MR. HEMPHILL: It is a forward
2 obligation, and, you know, you are to have 90
3 percent of your expected peak demand, 115 percent
4 of 90 -- however that works, 90 percent of 115
5 percent. But a month ahead it should also be
6 available.

7 So what you're talking about is a
8 failure of resource adequacy to actually be
9 implemented appropriately.

10 MR. KELLY: Well, as I pointed out, I
11 think when resource adequacy is actually
12 implemented, hopefully for next summer, I think
13 these problems are marginal.

14 MR. LaFLASH: Well, there's still the
15 longer term issue because the resource adequacy
16 requirement so far is one year. One year doesn't
17 get a new resource built.

18 PRESIDING MEMBER GEESMAN: Yeah, I think
19 that the easiest way to look at it in terms of
20 this Commission's concerns, is the longer term
21 time dimension. We have not engaged in any level
22 of detail in market structure debate, and
23 specifically not in the real time market structure
24 debate.

25 We do make some policy judgments known,

1 as we did in our '03 report, where we suggested
2 that a core/noncore structure needed to be
3 examined. And we subsequently provided conceptual
4 support to Commissioner Peevey's particular
5 proposal for a core/noncore structure.

6 But our concerns are more in the longer
7 term dimensions of market structure. And I've
8 heard each of you, with the exception of you,
9 Steven, indicate that the prospect of returning
10 direct access customers looms larger as an
11 uncertainty or risk than the prospect of departing
12 customers. That assumes a certain effectiveness
13 of the PUC's pronouncements on exit fees and the
14 avoidance of cost shifting.

15 But if I'm wrong in wanting to focus on
16 those return rights from a policy standpoint, I
17 hope you guys disabuse me of that. If not today,
18 then in your written comments.

19 MR. CAUCHOIS: Well, I think that this
20 idea of the obligation beyond that year that is
21 the resource adequacy obligation that we're going
22 to have in California in the short term. But
23 whether that obligation should be longer term is a
24 topic of discussion all over the country right
25 now, in fact, different parts of the world, in

1 people designing capacity markets or redesigning
2 capacity markets.

3 And so I think you're right to have the
4 longer term perspective. And once you get out
5 beyond that one year, the perspective really is
6 that we're not quite sure what the length of that
7 obligation should be on either side, either on the
8 customers that go out to noncore -- I mean they
9 have a term obligation that some people have
10 proposed that could be, even if it's not
11 permanent, that it's some years. Or if they
12 return, that it's some years.

13 But none of these things have been
14 pinned down. And they all affect how you look at
15 the longer term.

16 MR. KELLY: I think the --

17 MR. HEMPHILL: Depending on how the call
18 them coming-and-going rules are defined, that will
19 also define whether new investment is made in
20 generation. Because that allows for longer term
21 commitment. The stability of retail customers
22 allows for longer term commitments. You don't
23 even necessarily need a longer resource adequacy
24 requirement if the rules are appropriately made on
25 the retail. That's why I indicated earlier that

1 is the defining element for this industry in
2 California.

3 PRESIDING MEMBER GEESMAN: And, Scott,
4 if I understood your earlier comment correctly,
5 ORA believes the preferable approach would be once
6 you're gone, you're gone.

7 MR. CAUCHOIS: Yes, that's -- we've
8 indicated that if -- I mean that would be our
9 preference out of all the different choices for
10 that type of structure.

11 But, I can say that, you know, we'd be
12 open -- I mean I do understand there are some
13 jurisdictions with a different type of, I guess
14 I'll call it a ISO-back-stopping structure or a
15 capacity market where you could have mobility that
16 leaves people indifferent on both sides.

17 But, again, under that you'd have to --
18 that process, as I understand it, would be pretty
19 well designed to remove the risk for the load-
20 serving entities in long-term commitment.

21 At the same time, though, none of those
22 entities are totally sure that whatever structure
23 they have is actually inducing long-term
24 investment. I mean that's a big research question
25 out there.

1 MR. KELLY: Yeah, but your report, I
2 presume, is going to look at the long term
3 assuming a resource adequacy requirement of 115
4 percent. I mean when you stack your stuff --

5 PRESIDING MEMBER GEESMAN: Yeah, but
6 with a heavy expressed concern to the necessity of
7 meeting the state's infrastructure requirements.

8 MR. KELLY: Right, and that's fine. But
9 I mean your picture that you paint is going to be
10 a picture that would be painted for all the LSEs
11 about this is what we see, this is the resource
12 additions, if any, that you're going to need in
13 order to meet that based on our projection of what
14 know today, blah, blah, blah.

15 So people are going to have a long-term
16 view of what it's going to take to be roughly
17 resource adequate under the vision that you're
18 going to articulate here. So that should be an
19 important signal for the load-serving entities,
20 all of them, to engage to meet that need.

21 And if we do have a tradeable capacity
22 market, which allows for the mobility of the
23 capacity value that people are buying into at the
24 front end, I think that will go a long way to help
25 relieve some of the concerns, as well.

1 PRESIDING MEMBER GEESMAN: My hunch is
2 that by the time our report is issued in November
3 we won't have a tradeable capacity market.

4 MR. KELLY: We probably won't even have
5 a phase two decision.

6 (Laughter.)

7 MR. HEMPHILL: I think that's a good
8 hunch.

9 MR. KELLY: But it will still be a
10 vision that will tell people, you know, out on a
11 horizon that we think there's a need for capacity.
12 It's going to send a signal to the PUC to, you
13 know, your estimated extent of that need. And
14 presumably there'll be action taken on that now so
15 that we're not caught short.

16 PRESIDING MEMBER GEESMAN: Yeah, but I
17 guess if the current standoff over this question
18 of the utilities having inadequate certainty about
19 who their customers in the future will be, that
20 current standoff is inhibiting investment -- and I
21 would submit that it is -- or if it is skewing
22 procurement in such as way as to inhibit
23 investment. And I mean by investment, long-term
24 capital investment that builds new infrastructure.

25 Then I think that our report is going to

1 need to identify that problem. And within the
2 limits of our ability, make some recommendations
3 as to how to address it.

4 MR. KELLY: Yeah, I expect you will. If
5 there's a problem then we'd want to solve that. I
6 mean we're interested in making sure that there's
7 a reliable system.

8 PRESIDING MEMBER GEESMAN: Have either
9 Edison or PG&E expressed a view as to a preference
10 on return rules? I mean Scott indicated ORA has a
11 pretty clear preference in the ideal world, that
12 once you're gone you can't come back.

13 Do either of your companies share that
14 view? Or have you looked at more of a range of
15 alternatives?

16 MR. HEMPHILL: I think we've looked at a
17 range. I know at times we've expressed exactly
18 the same point of view. I know, also, that
19 particular view is not palatable for a lot of our
20 customers. And so we do find, try to find the
21 right balance of coming and going rules. I think
22 that's what you would find if you looked at our
23 PUC dockets -- excuse me, PUC filings on the
24 subject.

25 MR. LaFLASH: I don't think we've ever

1 gone as far as what Scott recommended for the same
2 reasons Stu said, that's not what our customers
3 want.

4 But we do believe there's a need for
5 reasonable switching rules and long-term resource
6 adequacy rules so we can get the infrastructure
7 built.

8 PRESIDING MEMBER GEESMAN: Rob, can I
9 pin you down? Green light.

10 MR. ANDERSON: You can't pin me down,
11 but I know this very topic is being discussed
12 actively right now in a CCA proceeding, a phase
13 two CCA proceeding at the Commission.

14 I know we have laid out some, I'll say
15 some rules there, or at least some structure for
16 putting rules in. I just can't recall exactly
17 what SDG&E's proposal was at this time.

18 PRESIDING MEMBER GEESMAN: And would you
19 envision the same rules applying to direct access
20 customers as applying to community choice
21 aggregators?

22 MR. ANDERSON: Off the top of my head I
23 see it's a very similar issue. It's the utility
24 trying to understand what load it's going to
25 serve, and for what time period.

1 MR. LaFLASH: The only difference that I
2 can think of is in these exit fees and surcharges
3 that you mentioned earlier, they apply to
4 customers that are now served by the utility.
5 They don't apply to current direct access
6 customers.

7 So if those direct access customers came
8 back they may need to be treated differently. We
9 haven't formed an opinion on that.

10 PRESIDING MEMBER GEESMAN: Okay. Other
11 topics that we ought to address? The President's
12 speech last night? Basketball game?

13 (Laughter.)

14 MR. MILLER: I just have 12 more slides
15 to go through.

16 HEARING OFFICER FAY: Okay, Ross, --

17 (Laughter.)

18 MR. MILLER: No, actually, I just wanted
19 to take the opportunity to thank staff for this
20 report. It was kind of an unusual interdivisional
21 project, and I think it was very fruitful.

22 And I also wanted to thank the utilities
23 for all the work they put into the filings. As
24 Edison said, it was mountains and gigabytes of
25 material. And it was, I thought, thoughtfully put

1 together. And where it wasn't everything we
2 wanted it to be, I think there were pretty good
3 challenges described why they couldn't do that.

4 PRESIDING MEMBER GEESMAN: Let me make
5 certain that -- oh, we do have a comment from the
6 audience. Please come up and --

7 MS. FREEDMAN: Right, I --

8 PRESIDING MEMBER GEESMAN: You need to
9 identify yourself.

10 MS. FREEDMAN: This is my first time
11 doing this, so, I'm sorry. I did submit a blue
12 card, but I don't think it made it your way.

13 PRESIDING MEMBER GEESMAN: It's my
14 mistake. You must be Susan Freedman.

15 MS. FREEDMAN: That I am.

16 PRESIDING MEMBER GEESMAN: San Diego
17 Association of Governments Energy Working Group.

18 MS. FREEDMAN: Two places. I'm actually
19 the Senior Policy Analyst for the San Diego
20 Regional Energy Office, and I also serve in a
21 staff role to the San Diego Association of
22 Governments in their Energy Working Group. So I'm
23 here today in that role.

24 And I wanted to just provide a little
25 bit of insight on what the Energy Working Group is

1 planning to do in conjunction with SDG&E for the
2 2006 plan.

3 I appreciate the opportunity to come and
4 provide comment today. And it's on the role of
5 the EWG and providing direction and input in the
6 2006 submittal with SDG&E.

7 The Energy Working Group, for those who
8 aren't aware, represents 18 cities and the County
9 of San Diego, as well as large business, small
10 business, labor and environmental groups. SDG&E,
11 as well as San Diego Regional Energy Office also
12 are members of the working group.

13 The number one priority that the working
14 group identified for this year is to work in
15 conjunction with SDG&E in the development of its
16 2006 resource plan. And a big reason that this is
17 important is because other than keeping the lights
18 on and following the requirements of the CPUC and
19 the CEC, we want to make sure that SDG&E takes
20 advantage of the policy goals and drivers that
21 were brought forth in the regional energy strategy
22 for San Diego.

23 Within the regional energy strategy,
24 very briefly, it promotes renewable energy, energy
25 efficiency, distributed generation. It also shows

1 a preference for inbasin power generation over
2 importing and having reliance on outside
3 generation.

4 Several San Diego stakeholders, during
5 the 2004 long-term resource plan process, had
6 submitted comments to the CPUC regarding concerns
7 they had with the 2004 submittal. And SDG&E was
8 very forthcoming and helpful in explaining why
9 they acted differently than what the commenters
10 had said.

11 But in the end none of the comments
12 brought forth by the community and stakeholders
13 were brought forward into the final plan that
14 SDG&E submitted. So it seemed it was a little too
15 late in the process.

16 So that's what the Energy Working Group,
17 with SANDAG, has wanted to move forward with
18 getting in at the front end, and getting --
19 creating an open venue for discussion and
20 direction of policy drivers locally to have it
21 incorporated into the 2006 submittal.

22 So with that, Rob Anderson, I would like
23 to state, and SDG&E, has been very helpful in
24 educating us on the 2004 plan. And helping
25 provide somewhat of the lay of the land on what's

1 going to happen going forward.

2 And I just wanted to alert everyone
3 today to the fact that the Energy Working Group is
4 looking forward to working with you all and the
5 PUC and continuing the SDG&E in this process.

6 Just as a final note, Alan Sweedler,
7 with SDSU, who is also a member of the Energy
8 Working Group, he'll be here tomorrow to further
9 elaborate on the EWG's goals and roles in this
10 matter.

11 So thank you very much for your time.

12 PRESIDING MEMBER GEESMAN: Well, thank
13 you. I wonder if you would elaborate a bit on the
14 reasons for your preference for inbasin resources
15 as opposed to imports.

16 MS. FREEDMAN: Part of that had to do
17 with during the electricity crisis, when it first
18 hit the San Diego area, over all the rest of
19 California, and we were paying exorbitant prices
20 before anybody else.

21 And we just have a very high reliance,
22 which is a fear factor, locally among residents
23 and businesses. So it started from there when the
24 regional energy strategy was being developed in
25 2002 and 2003, that we no longer wanted to have to

1 heavily rely on importing power.

2 So, in looking in that, too, I think the
3 region and comments that have come up in the past
4 was well, what about repowering facilities there,
5 a bigger reliance on renewable energy in-region.
6 And just being more self reliant. I think that's
7 a security issue and concern, as well.

8 PRESIDING MEMBER GEESMAN: I want to
9 stay engaged on this question as we go through the
10 remainder of this cycle this time, and in the
11 future, as well.

12 And I would express a cautionary note,
13 because I've met with a variety of your members,
14 that that can also be a thinly disguised rationale
15 for opposing new transmission projects. And I
16 think one of the problems that has beset your part
17 of the state has come from the fact that it is so
18 poorly interconnected with the rest of California
19 and the rest of the west. I think your rates
20 would be significantly lower had the state made a
21 higher priority of improving the
22 interconnectedness of San Diego with the rest of
23 the west.

24 And I'm hopeful that one of the things
25 that emerges from our report is a renewed emphasis

1 on the desirability of doing that. I think we've
2 heard now in several of our workshops the
3 importance of better interconnectedness to
4 reaching out-of-basin renewable resources. But I
5 think there are other reasons, as well.

6 And I think ultimately your region is
7 likely to be better served, and certainly enjoy
8 the benefit of lower rates if you are less of an
9 island in our transmission system than you
10 currently are.

11 MS. FREEDMAN: I agree with those
12 comments, and in looking at Valley-Rainbow, that
13 would have been a great benefit. And I don't
14 think the Energy Working Group would be against
15 transmission. I think where concerns come up is
16 just looking at the timing and making sure that it
17 doesn't create a barrier to more in-region
18 renewables and whatnot.

19 PRESIDING MEMBER GEESMAN: And I think
20 that's a worthy objective, as well.

21 MS. FREEDMAN: So I don't think anyone's
22 against transmission --

23 PRESIDING MEMBER GEESMAN: Well, I know
24 there are some that are. And I intend to continue
25 to push back pretty hard on that.

1 MS. FREEDMAN: But with the working
2 group. Thank you very much.

3 PRESIDING MEMBER GEESMAN: Thank you.
4 Are there other members of the audience that would
5 like to address us? Anybody on the phone?

6 MR. PIGGOTT: Yes, this is Jack Piggott;
7 I'm still here. I just had a general comment, and
8 I understand that you've been highly constrained
9 by confidentiality issues on this report.

10 But given that it's going to be the
11 basis for, or that it's perhaps going to lead to
12 another report that will be the basis of PUC
13 procurement, and that the specifics are lacking
14 due to confidentiality, we really don't -- other
15 market participants and members of the public
16 really don't have any way to challenge the
17 assumptions and see if they're valid. One point,
18 you know, make our argument.

19 And additionally, the results of the
20 report doesn't really form a basis for developers,
21 generators to site new facilities. If we don't
22 really know what type of power is needed, and
23 where and when, it's difficult -- it's just not
24 helpful in siting new generation.

25 And I guess I question why the

1 confidentiality is such an issue, given that this
2 report doesn't even start till 2009. Certainly,
3 you know, any way that other market participants
4 would be able to use this would mostly be to site
5 new generation.

6 PRESIDING MEMBER GEESMAN: Well, --

7 MR. PIGGOTT: I guess I would hope that
8 later on, or that the next version of this could
9 be more specific, and could indicate, you know, a
10 breakdown of what types of generation, you know.
11 How much renewable, how much baseload, how much
12 peaking. Ideally where would it be located. And
13 when would it be procured.

14 MR. HEMPHILL: I'd be happy to address
15 that. I think all of those questions can be
16 answered without indicating what utilities'
17 residual net short position is. What we've found
18 is that generators are quite adept at taking bits
19 and pieces of information and using it to increase
20 prices. And that's the big concern over
21 confidentiality.

22 The only thing, from our perspective,
23 that generators need to know to bid into a
24 solicitation that does define what and where is
25 needed -- and where it's needed, is the

1 generator's cost. And anything additional will be
2 used to increase prices. We've seen that time and
3 time again. In fact, the woman who came in and
4 spoke about her organization developing was
5 talking about the price increases that took place
6 during the crisis. And that is a great example of
7 information being too available to market
8 participants.

9 I have one other thing to address, which
10 is you indicated that information isn't available.
11 And I disagree with that. We readily make it
12 available to anyone who is willing to sign a
13 nondisclosure agreement.

14 PRESIDING MEMBER GEESMAN: I doubt that
15 you'd make it available to Mr. Piggott who
16 represents Calpine. I think you've confined that
17 in the past to nonmarket participants.

18 MR. HEMPHILL: I believe the rest of my
19 comments are still valid.

20 (Laughter.)

21 MR. KELLY: I would actually take Edison
22 up if they can -- sounds like Stuart said that
23 they are able to, or at least interested in
24 developing a plan that would tell market
25 participants the what, where and when without

1 revealing the net short, which is great.

2 MR. HEMPHILL: I believe that the CEC is
3 in a great position to talk about regional
4 generation needs, the load, the aggregate loads
5 and resources. And that's something I can't do.
6 I don't know other load-serving entities' loads
7 and resources.

8 When generation is sited it has to be, I
9 mean it's most helpful in a transmission-
10 constrained area. And the CEC is in great
11 position to talk about the need for that kind of
12 generation. It's not something I can do, and it's
13 not to meet my bundled customer needs.

14 MR. PIGGOTT: Would it make sense then
15 that to not use this for procurement, but let the
16 CEC then go out and use it, its own information,
17 to generate a resource plan and use that, have the
18 PUC use that for procurement?

19 PRESIDING MEMBER GEESMAN: Well, I don't
20 want to answer any of these questions today, Jack.
21 I'd prefer to let the report that we submit speak
22 for itself.

23 I would also encourage you and the other
24 participants here today to make these arguments on
25 confidentiality at the Commission's July 13th

1 business meeting. We will be hearing the appeals
2 of each of the three investor-owned utilities from
3 our Executive Director's ruling on the
4 confidentiality of the supply-related information.

5 We previously upheld the Executive
6 Director as it related to demand side information.
7 And are being sued by one of the IOUs because of
8 that decision.

9 We'll have these issues on the supply
10 side in front of us on the 13th, and make the best
11 decision we can thereafter.

12 MR. LaFLASH: I'd like to say one thing.
13 Jack, this is Hal LaFlash of PG&E -- a comment on
14 your comment and on Steven Kelly's comment.

15 We just held an RFO and just told the
16 market the what, where and when. We said we
17 needed 1200 megawatts of peaking and shaping
18 resources, and another 1000 megawatts two years
19 later of intermediate resources.

20 When we have a need we describe that
21 need, describe the products we need, and go
22 forward with an RFO.

23 MR. PIGGOTT: I appreciate that, and,
24 you know, I guess my comment has to do with the
25 fact that this is a long-term procurement report,

1 or I guess needs report. And, you know, we're
2 looking at the timeframe of 2009 to 2016.

3 To me, I think having information or
4 projections about that, which I guess Commissioner
5 Geesman had indicated is with a broad paintbrush,
6 that, you know, how we're making these
7 projections. That having that information out
8 there doesn't give anyone the opportunity to
9 manipulate prices. Instead it just gives
10 everybody a common basis on which to plan.

11 And, you know, I appreciate that in your
12 RFOs you have given us information. And I guess
13 my only point is that if we had more information
14 going out further in the future, that we'd have
15 sites permitted and be able to respond to those
16 RFOs, you know, with better projects.

17 MR. LaFLASH: This is Hal LaFlash again.

18 I think there were some takeaways in
19 this report today that disclosed more of what we
20 need in the future.

21 I think all three utilities say we need
22 more peaking and shaping resources. And not as
23 much baseload.

24 And I think that's going to be the case
25 as long as we keep trying to add as many

1 renewables as possible, because renewables
2 generally don't have those features. And we need
3 those features to complement the renewables.

4 MR. HEMPHILL: For Edison that's the
5 case through the end of the decade. You know,
6 we're long most hours, and that's primarily due to
7 DWR contracts and other baseload resources that we
8 have.

9 So we've said that; we need peaking; we
10 need shaping resources. That's what we need.

11 MR. PIGGOTT: I understand that, as
12 well. I guess my complaint is in these tables
13 where there are numbers that, you know, there's a
14 net short number, and then there's another number
15 from bilateral contract and other resources and
16 new resources, and they're all lumped together,
17 renewables and everything else.

18 MR. HEMPHILL: I would recommend the
19 report that was released today. I think it's more
20 complete and you'll find more detail in that to
21 your satisfaction.

22 MR. PIGGOTT: Okay, great.

23 PRESIDING MEMBER GEESMAN: Any other
24 comments?

25 Okay, thank you, all, for a very

1 productive afternoon.

2 We'll be adjourned.

3 (Whereupon, at 4:15 p.m., the hearing
4 was adjourned.)

5 --o0o--

CERTIFICATE OF REPORTER

I, CHRISTOPHER LOVERRO, an Electronic Reporter, do hereby certify that I am a disinterested person herein; that I recorded the foregoing California Energy Commission Hearing; that it was thereafter transcribed into typewriting.

I further certify that I am not of counsel or attorney for any of the parties to said hearing, nor in any way interested in outcome of said hearing.

IN WITNESS WHEREOF, I have hereunto set my hand this 11th day of July, 2005.